MDN_Viewer System User's Manual

Version 1.0.6

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Welcome

Thank you for using our Smart Professional Surveillance System (Mdn_viewer)!
This user's manual is designed to be a reference tool for operation of your system.
Here you can find detailed operation information about Mdn_viewer.

1 Overview and Environment

1.1 Overview

It is software to manage small quantity security surveillance devices. It releases with the device and does not support the products from other manufacturers. It has the following features:

- View real-time video of several camera channels.
- View the playback video files from various cameras.
- Support multiple scheduled arms to realize auto PC guard.
- Support e-map; you can clearly view and manage all device locations.
- It can create individual configuration files for each user, which allows you maintain your own habit and style.
- Support extension applications, can send out alarm information to external programs.

1.2 Performance

- System max supports 36-channel at CIF resolution.
- Each stream media server max receives 16-channel video and transfers 128-chanel video.
- Each storage server max supports to save 16-channel video (no bit stream limit).

1.3 Environments

Item	Requirements
OS	Windows 2000/Windows XP/Windows 2003/Window Vista/Win7.
CPU	2.4GHz or higher.
Display card	Independent car and support directX 8.0c or higher.
Memory	1GB or higher.
Displayer Resolution	1024×768 or higher.

2 Installation and Upgrade

2.1 Installation

1) Double click “Mdn_viewer_Setup.exe” to begin installation. See Figure 2-1.

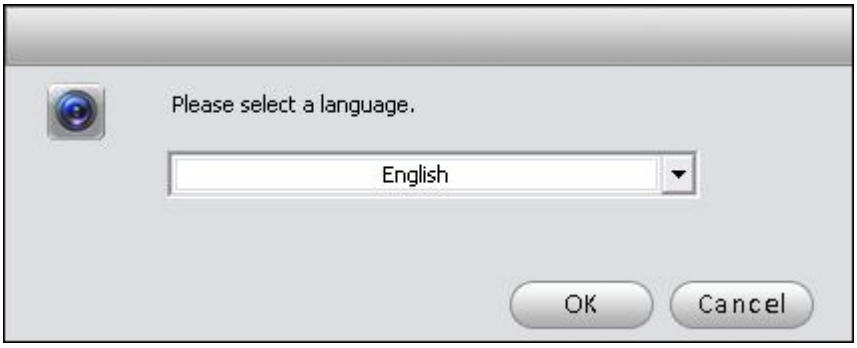


Figure 2-1

2) Select installation language from the dropdown list and then click OK button to go to Welcome interface. See Figure 2-2.

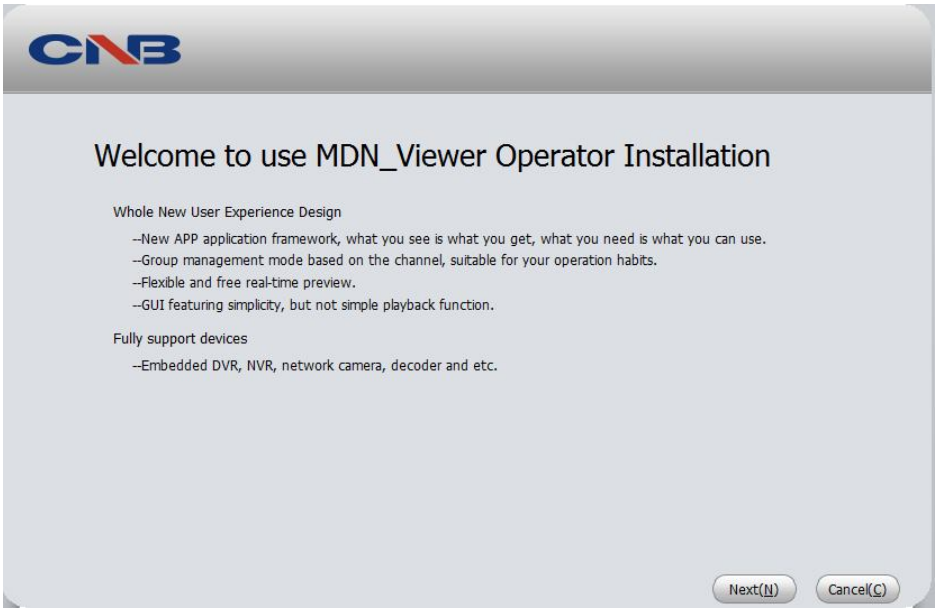

CNB
Welcome to use MDN_Viewer Operator Installation
Whole New User Experience Design
--New APP application framework, what you see is what you get, what you need is what you can use.
--Group management mode based on the channel, suitable for your operation habits.
--Flexible and free real-time preview.
--GUI featuring simplicity, but not simple playback function.
Fully support devices
--Embedded DVR, NVR, network camera, decoder and etc.
Next(N)
Cancel(C)

Figure 2-2

3) Click next button, you can see an interface is shown as in Figure 2-3. Here you can view End user License Agreement.

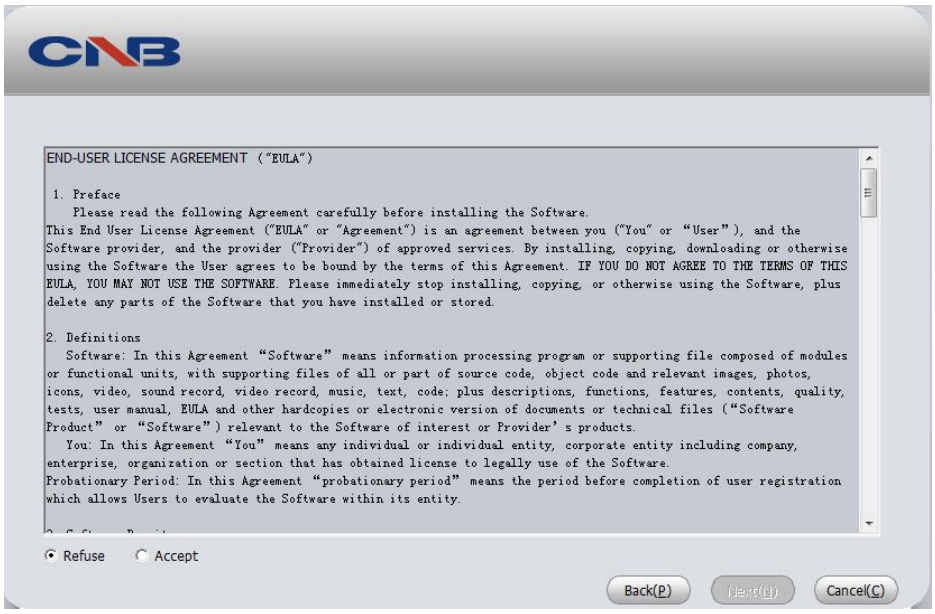

END-USER LICENSE AGREEMENT ("EULA")
1. Preface
Please read the following Agreement carefully before installing the Software.
This End User License Agreement ("EULA" or "Agreement") is an agreement between you ("You" or "User"), and the Software provider, and the provider ("Provider") of approved services. By installing, copying, downloading or otherwise using the Software the User agrees to be bound by the terms of this Agreement. IF YOU DO NOT AGREE TO THE TERMS OF THIS EULA, YOU MAY NOT USE THE SOFTWARE. Please immediately stop installing, copying, or otherwise using the Software, plus delete any parts of the Software that you have installed or stored.
2. Definitions
Software: In this Agreement "Software" means information processing program or supporting file composed of modules or functional units, with supporting files of all or part of source code, object code and relevant images, photos, icons, video, sound record, video record, music, text, code; plus descriptions, functions, features, contents, quality, tests, user manual, EULA and other hardcopies or electronic version of documents or technical files ("Software Product" or "Software") relevant to the Software of interest or Provider's products.
You: In this Agreement "You" means any individual or individual entity, corporate entity including company, enterprise, organization or section that has obtained license to legally use of the Software.
Probationary Period: In this Agreement "probationary period" means the period before completion of user registration which allows Users to evaluate the Software within its entity.
Refuse
Accept
Back(P)
Next(N)
Cancel(C)

Figure 2-3

4) Please check the Accept item and then click Next button to continue. System pops up module installation dialogue box. See Figure 2-4.

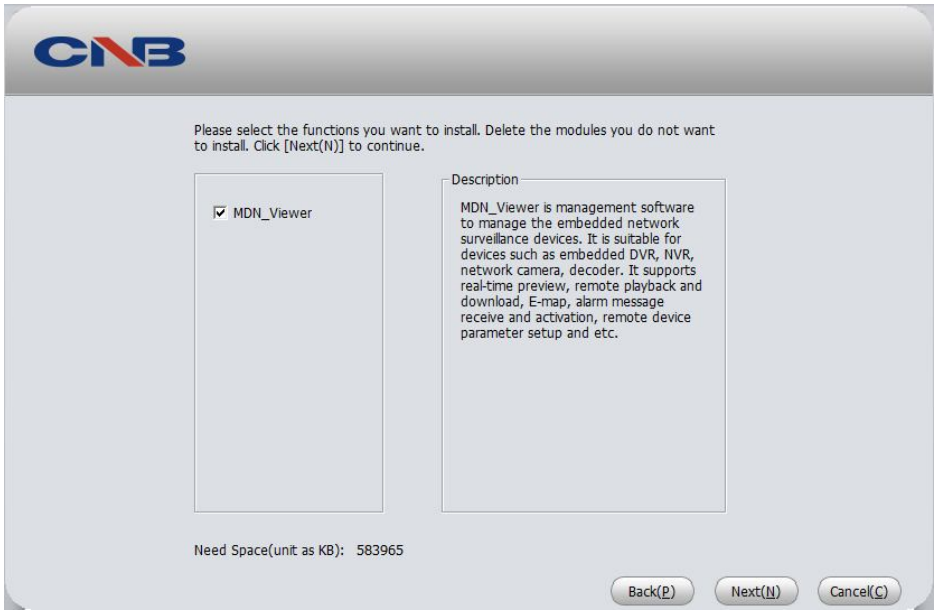

Please select the functions you want to install. Delete the modules you do not want to install. Click [Next(N)] to continue.
MDN_Viewer
Description
MDN_Viewer is management software to manage the embedded network surveillance devices. It is suitable for devices such as embedded DVR, NVR, network camera, decoder. It supports real-time preview, remote playback and download, E-map, alarm message receive and activation, remote device parameter setup and etc.
Need Space(unit as KB): 583965
Back(P)
Next(N)
Cancel(C)

Figure 2-4

5) Check Mdn_viewer item and then click Next button, you can see there is an interface asking you to specify installation path. See Figure 2-5.

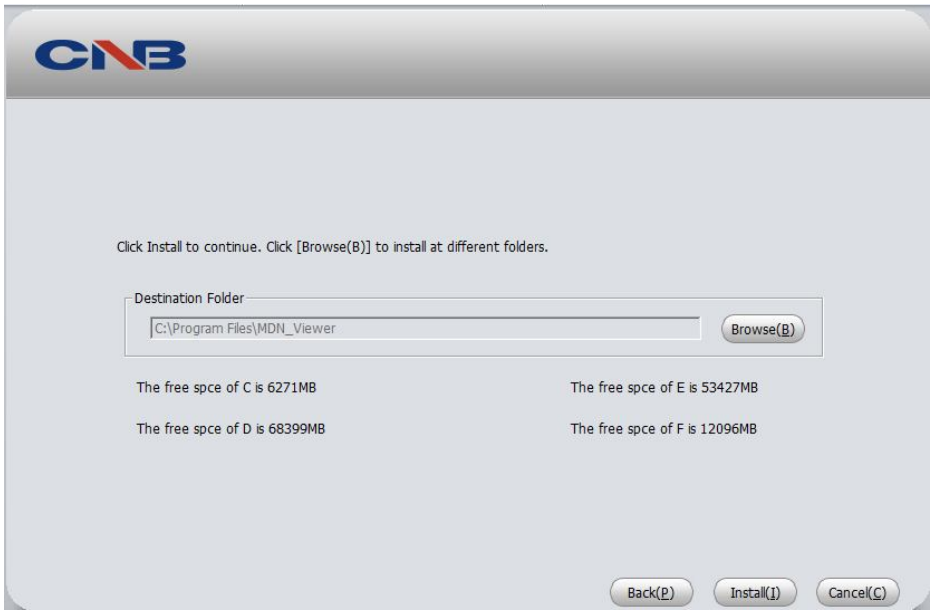

Click Install to continue. Click [Browse(B)] to install at different folders.
Destination Folder
C:\Program Files\MDN_Viewer
Browse(B)
The free spce of C is 6271MB
The free spce of E is 53427MB
The free spce of D is 68399MB
The free spce of F is 12096MB
Back(P)
Install(I)
Cancel(C)

Figure 2-5

6) After you select installation path click Next button, system begins installation. The interface is shown as in Figure 2-6.

Whole New, Flexible, Free Real-Time Preview Experience
Multiple-window real-time preview at any position you want. Customized window display modes to meet your various preview requirements.
Back(P)
Next(N)
Cancel(C)

Figure 2-6

7) During the installation process, you can click Cancel button to exit. After installation, you can see an interface is shown as below. See Figure 2-7.

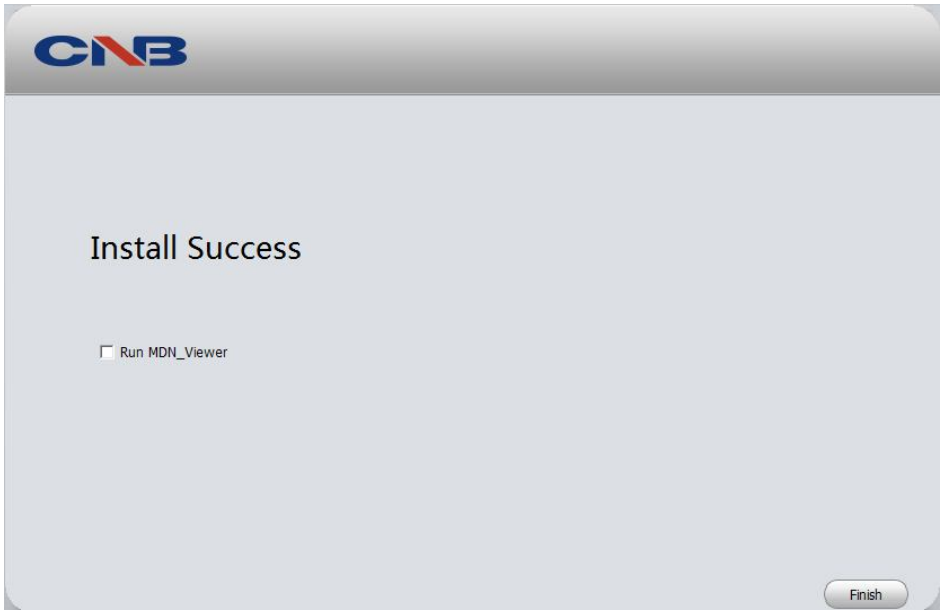


Figure 2-7

8) Click Finish button, you can complete the installation.

2.2 Un-installation

1) From Start -> All programs->Mdn_viewer, select Uninstall Mdn_viewer item. System pops up the following dialogue box. See Figure 2-8. Please click yes to remove PSS.

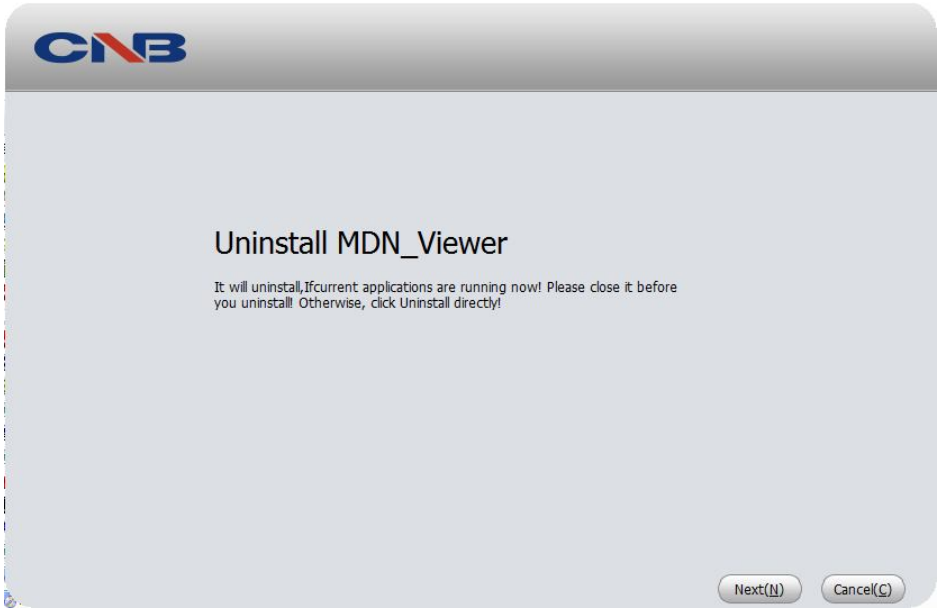

Uninstall MDN_Viewer
It will uninstall,Ifcurrent applications are running now! Please close it before you uninstall! Otherwise, click Uninstall directly!
Next(N)
Cancel(C)

Figure 2-8

2) Click Next button, you can see an interface shown as in Figure 2-9.
3) Check the box here to remove Mdn_viewer. Click Uninstall button to remove.

Please choose the components that you want to uninstall,Delete the modules you do not want to install.Click [Uninstall(U)] to continue.
MDN_Viewer
Uninstall(U)
Cancel(C)

Figure 2-9

3 Setting

Double click Mdn_viewer icon

, you can go to the login interface.

3.1 Login Interface

Login interface is shown as in Figure 3-1.

- User name: Input the user account
- Password: Please input corresponding password to log in.
- OK: Click this button, system can verify the account and then enter the software main interface.
- Cancel: Click this button to exit login interface.

Note:

- If it is your first time to run the Mdn_viewer program, default user name is **admin** and its password is **1111** too. Admin is a super administrator and can not be removed. It can add, modify or delete other user.
- For security reason, please modify your password after first log in.
- You can memory your password, so that when you can log in the next time, you do not need to input user name and password. Please note this function is for your convenient only. **Do not** enable this function in public PC.

Figure 3-1

3.2 Main Interface

Click Login button, system begins verifying user name and password and then go to the main interface. See Figure 3-2.

Figure 3-2

Please refer to the following sheet for detailed information.

SN	Parameter	Function
1	Menu	Here you can view main page icons and current open function icon.
2	Basic	It includes preview, playback, alarm manager, alarm link and etc.
3	Extension	It includes e-map, device display control and etc.
4	Setting	It includes basic configuration, alarm configuration, alarm input/output, signal source configuration, device manager, user manager, PC-NVR manager, monitor task setup and etc.
5	Mdn_viewer basic information	It is to display current time, user information, login time.

3.3 General

If it is your first time to login the Mdn_viewer, you need to set system parameter. It includes network performance, log save time, login Mdn_viewer or not, picture and record saved path. Please follow the steps listed below.

Click the button; you can go to the general interface. See Figure 3-3.

3.3.1 Basic

It is to set capability, language, time and etc.

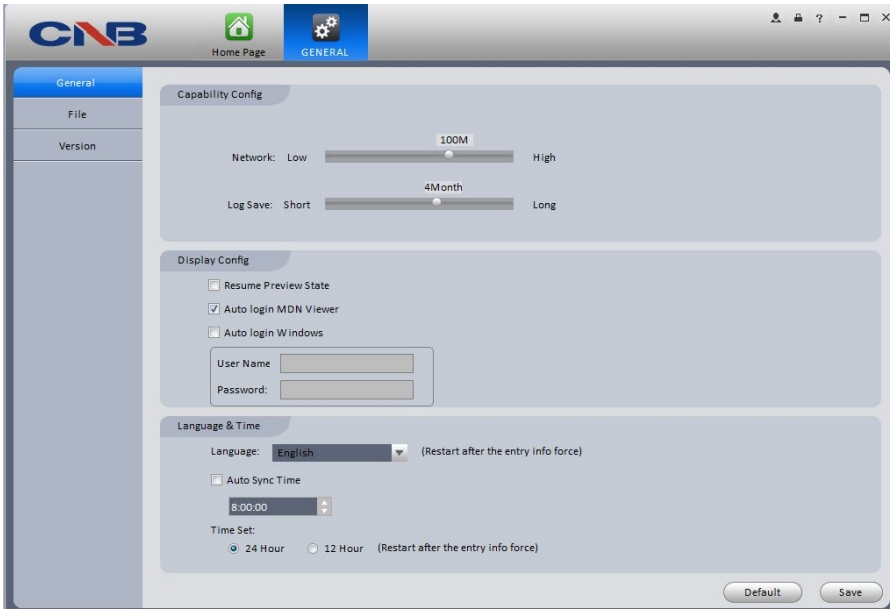


Figure 3-3

Please refer to the following sheet for detailed information.

Item	Function
Network function	It is for you to set network function. It includes: “WAN”, “10M”,’100M’,”1000M”.
Log save period	Here you can set log save time. System automatically overwrites old files once it reaches the period you set here. It includes; 1/2/3/4/5/6-month.
Auto login Mdn_viewer	Check the box here, you can login Mdn_viewer directly without inputting user name and password.
Auto login Windows	Check the box here and then input user name and password, you can go to the Windows OS after the computer restart.
Language	Software language.
Auto sync time	Check the box here to enable time synchronization function and then input synchronization time. Mdn_viewer can auto synchronize time with the PC at the time you specified.
Time setup	System time. It includes 12H/24H.

3.3.2 File Path

File configuration interface is shown as below. See Figure 3-4.

Here you can set snapshot picture and record file default save path.

Configuration file path: It is to import or export configuration file. If you change path to D disk, you can export current software user information to D disk. If current software has installed at the D disk, you can import user information to current software.

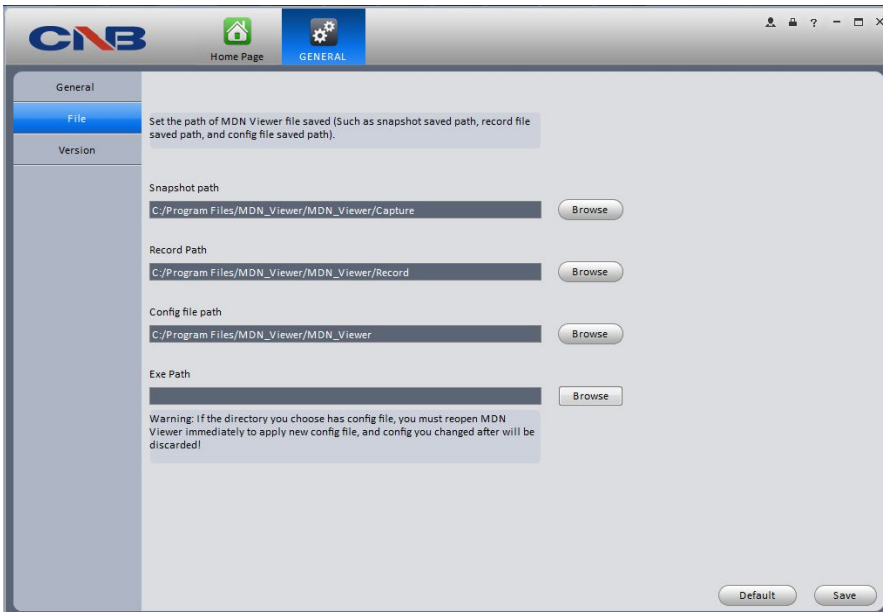


Figure 3-4

3.3.3 Version

Click the version button; you can go to the following interface. See Figure 3-5.
Here you can view software version information.

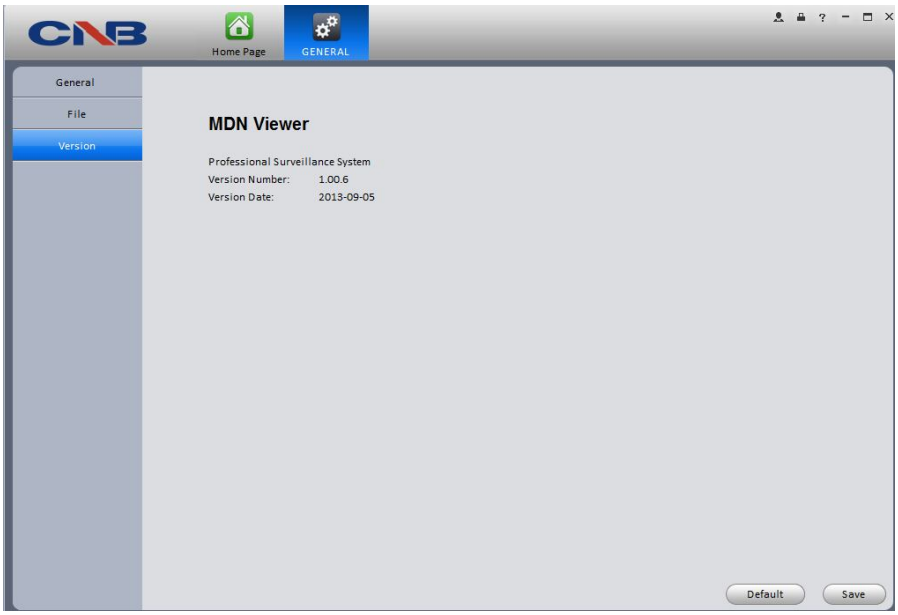


Figure 3-5

Tips

You can click Default button to restore factory default setup.

3.4 Account

Here you can add, modify or delete a user.

3.4.1 Add user

1) Click in the Setting pane, you can go to the following interface. See Figure 3-6.

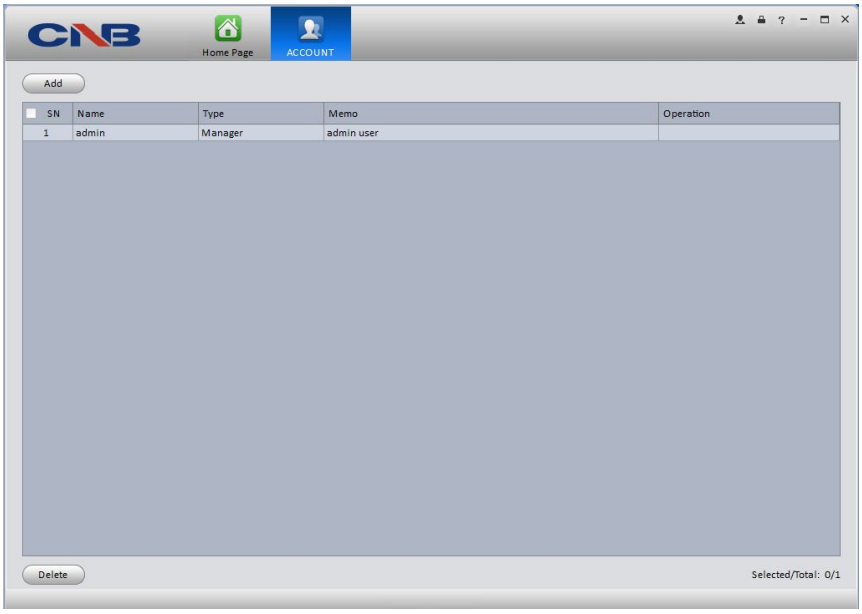


Figure 3-6

2) Click Add button, you can see system pops up the following interface. See Figure 3-7.

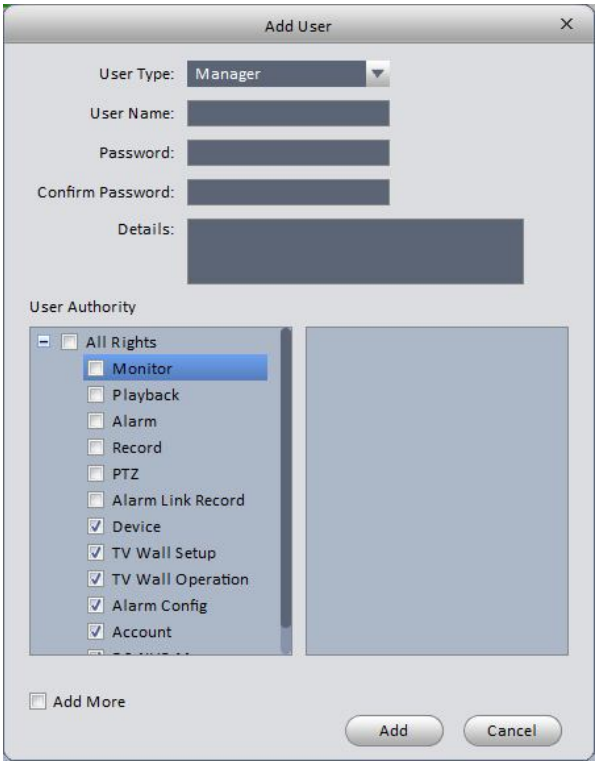


Figure 3-7

3) Select user type, input user name, password and confirm password. Input some description information if necessary. Select rights for the new user.
4) Click add button to add a new user. Or you can click Add more button if you want to add more new users.

Please refer to the following sheet for detailed information.

Item	Function
User type	You can select user type from the dropdown list. It includes: manager/operator.
User name	Please input user name here.
Password	Please set user password.
Confirm password	Please input new password again.
Details	You can input some description information here if necessary,.
User authority	Here you can check the box to select corresponding rights for current user. If the new user is a manager, system checks all rights by default.
Add more	Check the box here if you want to add more users.

3.4.2 Modify or Delete Users

Select a user in the list, and then click to modify, or click to delete it. Or you can select several users and then click the Delete button at the left bottom corner to remove them all.

3.5 Device Manager

Here you can add, modify and delete a device. You can also implement device channel group function.

3.5.1 Add Device

You can refer to the steps listed below to add, modify or delete a device manually or automatically.

3.5.1.1 Auto add

1) Click icon, system goes to the device manager interface; you can see an interface is shown as in Figure 3-8.

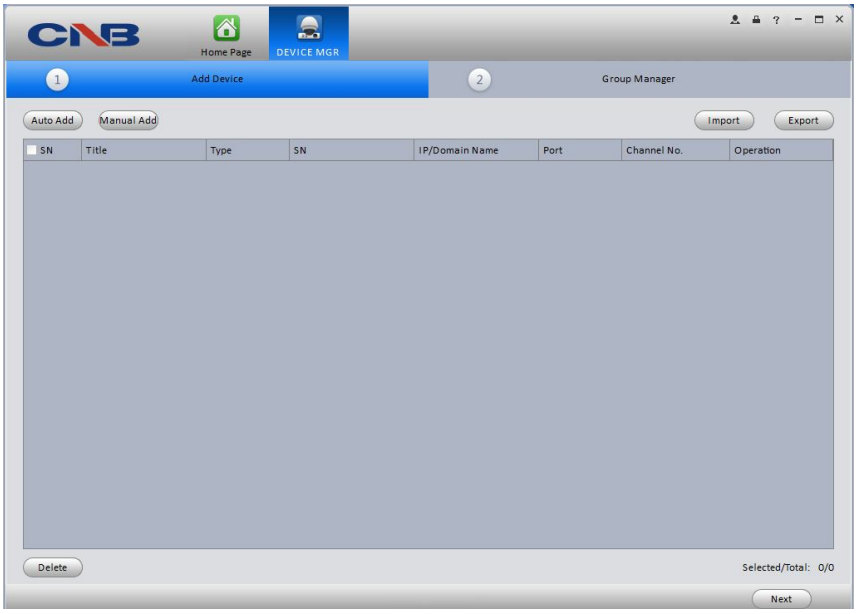


Figure 3-8

2) Click Auto add button, you can see an interface shown as in Figure 3-9.

3) Please check the box to select the devices you want to add and then click the Add button.

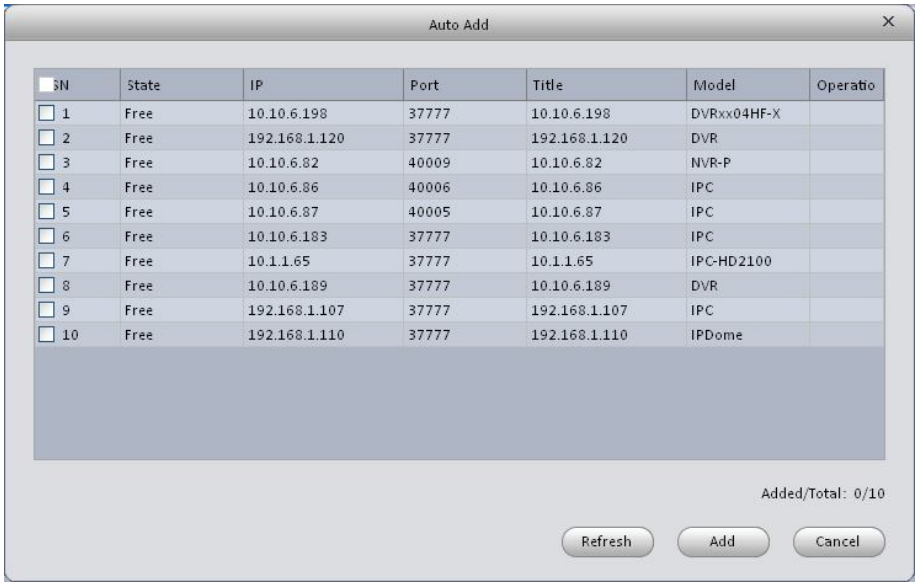


Figure 3-9

3.5.1.2 Manual Add

Click Manual Add button, the interface is shown as in Figure 3-10. Please input the corresponding information and then click Add button.

Figure 3-10

Please refer to the following sheet for detailed information.

Item	Function
Device name	Please input a device name here.
Group name	It defined by the device name.
Type	Select a device type from the dropdown list.。
IP/Domain name	Device IP address or domain name.
Port	Device IP port.
User name	The user name you login the device.
Password	The password you login the device.
Getting info	It is to get the online device information automatically.
Device model	Device model. Read-only.
Device SN	Device SN. Read-only.
Video input	Device video input channel amount.

Item	Function
Video output	Device video output channel amount.
Alarm input	Device alarm input amount.
Alarm output	Device alarm output amount.
Continuous add	Click it to add more devices.
Create Group	Add current device to group manager interface as one new group.

3.5.1.3 Add/Modify Device

Select a device in the list, and then click to modify, or click to delete it. Or you can select several devices and then click the Delete button at the left bottom corner to remove them all.

Tips

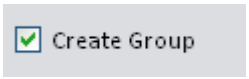
Click

button to import .xml file to add devices. Click

button and then select save path to save current device list to .xml file.

3.5.2 Group Manager

Note

- **For a device or a channel that is not included in the group management mode, you can not view it on the device list of the Preview interface.**
- **You do not need to implement group management if you have checked the box** 

on 오류! 참조 원본을 찾을 수 없습니다. **when you add a new device.**

After you add devices, you can set channel group to manage it.

1) Right click the

at the top right pane on **오류! 참조 원본을 찾을 수 없습니다.**, you can go to the following interface. See Figure 3-11.

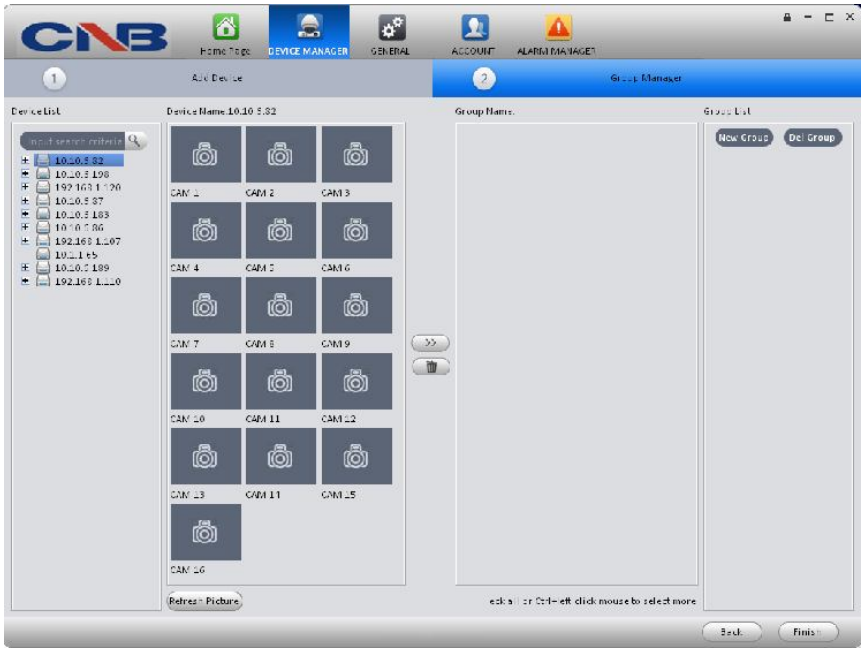


Figure 3-11

2) Click the New group button at the right top corner, you can create new group.

Note

- You can double click group name to change its name. Or you can right click a group name to rename or delete it.
- You can select a group and then click the button to delete it.

3) On the Device list on the right pane, you can select a device. You can view the corresponding channel name on the near pane.

4) Select corresponding channels and then click , you can add channels to the new group you created here. See Figure 3-12. Double click a channel; you can change its name.

5) Click Finish button to complete the setup.

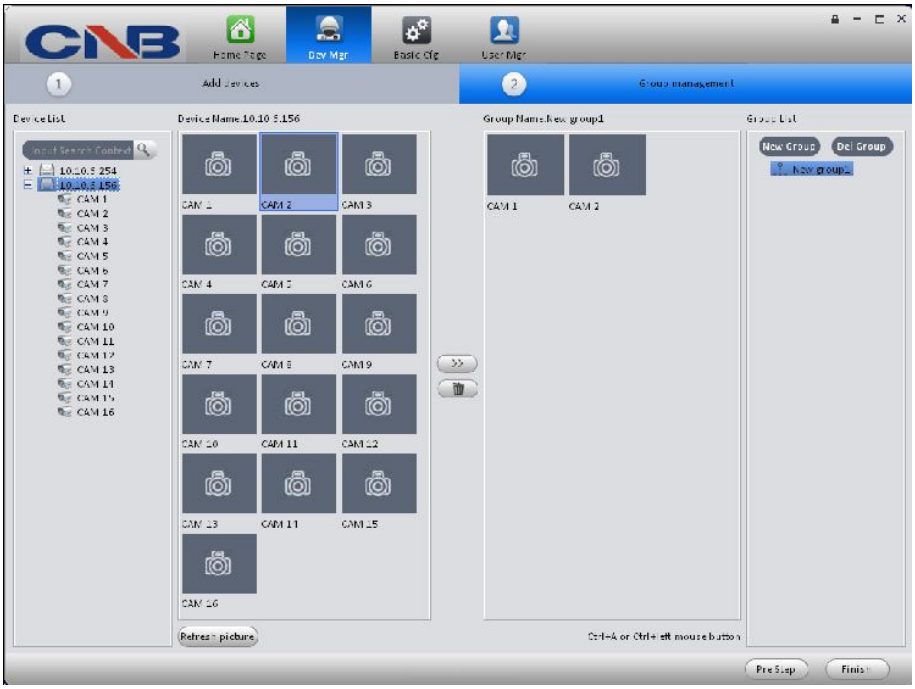


Figure 3-12

Tips

You can user Ctrl+left click mouse to select several channels at the same time. Or you can user Ctril+A to select all channels.

3.5.3 Parameter Setup

After you added a new device, you can select it and then click button at the operation column on the device manager interface. It is for you to set device parameters. See Figure 3-13.

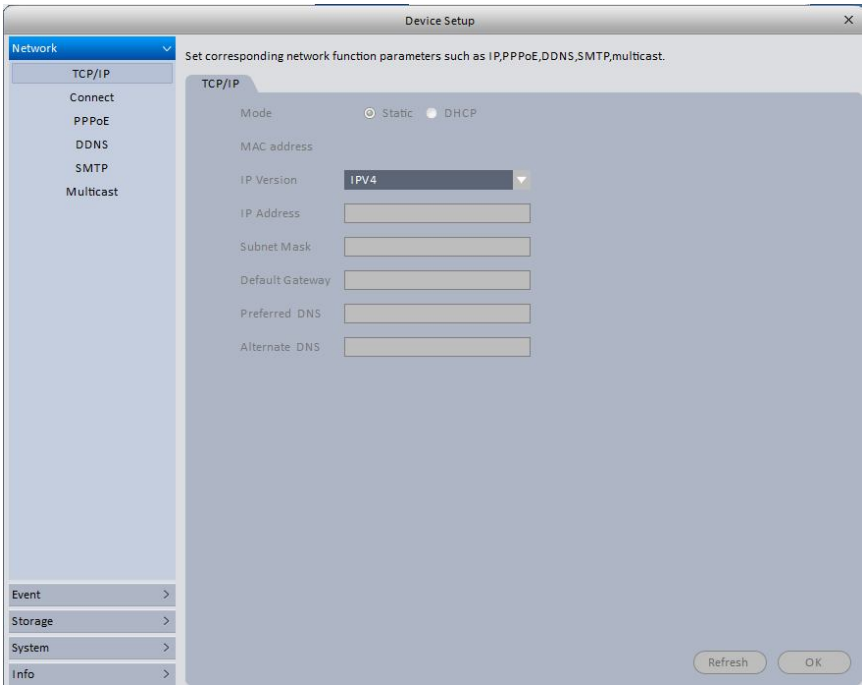


Figure 3-13

Tips

You can go to the signal sources interface ( ) and click the

button at the left bottom to go to the device setup interface.

3.5.3.1 Network

3.5.3.1.1 TCP/IP

Here you can set corresponding parameter when you are using TCP/IP connection. See Figure 3-14.

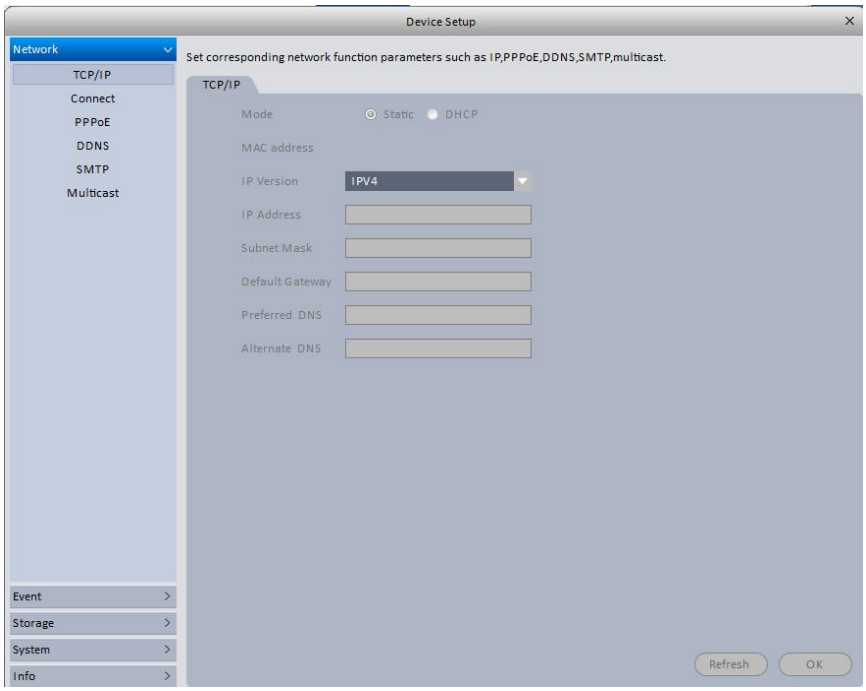


Figure 3-14

3.5.3.1.2 Connect

Here you can set max login account amount, TCP port, UDP port, HTTP port, RTSP port and etc. See Figure 3-15.

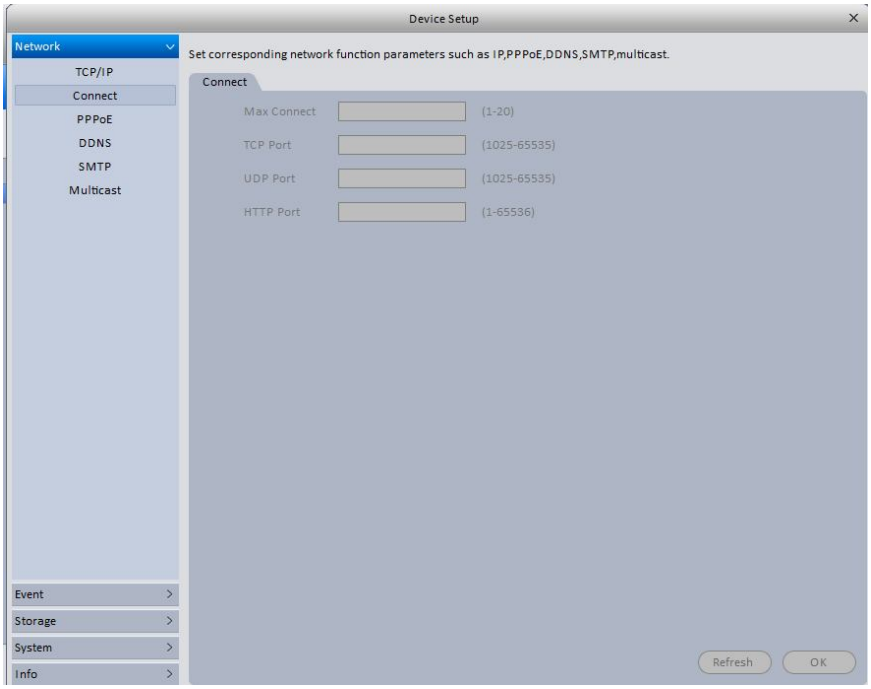


Figure 3-15

3.5.3.1.3 PPPoE

PPPoE interface is shown as below. See Figure 3-16.

Input “PPPoE name” and “PPPoE password” you get from your ISP (Internet service provider).

Click OK button, you need to restart to activate your configuration.

After rebooting, device will connect to internet automatically. The IP in the PPPoE is the device dynamic value. You can access this IP to visit the device.

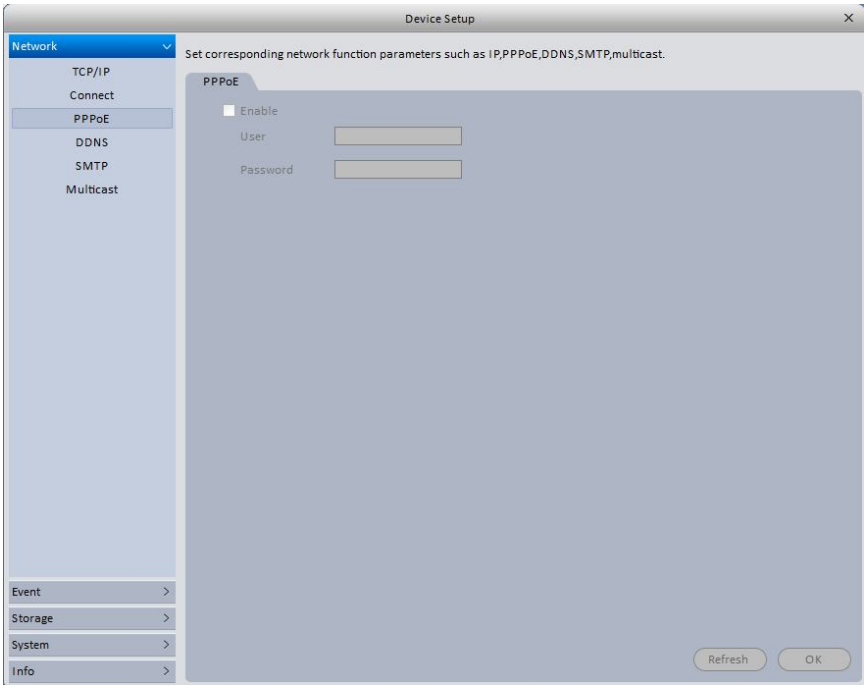


Figure 3-16

3.5.3.1.4 DDNS

DDNS setup interface is shown as in Figure 3-17.
You need a PC of fixed IP in the internet and there is the DDNS software running in this PC. In other words, this PC is a DNS (domain name server).
In network DDNS, please select DDNS type and highlight enable item. Them please input your PPPoE name you get from you IPS and server IP (PC with DDNS) . Click OK button and then reboot system.
Click Ok button, system prompts for rebooting to get all setup activated.
After rebooting, open IE and input as below:
http：//(DDNS server IP)/(virtual directory name)/webtest.htm

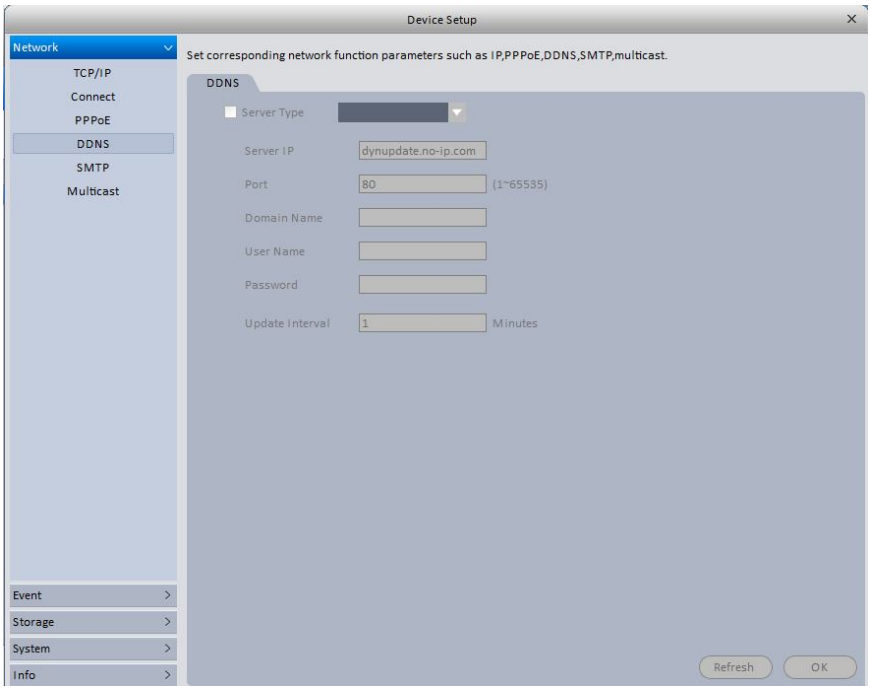


Figure 3-17

Please refer to the following sheet for detailed information.

Parameter	Function
Server Type	You can select DDNS protocol from the dropdown list and then enable DDNS function.
Server IP	DDNS server IP address
Server Port	DDNS server port.
Domain Name	Your self-defined domain name.
User	The user name you input to log in the server.
Password	The password you input to log in the server.
Update interval	Device sends out alive signal to the server regularly. You can set interval value between the device and DDNS server here.

3.5.3.1.5 SMTP (Email)

The SMTP interface is shown as in Figure 3-18. Here you can set email receiver, encryption mode, send out interval and etc.

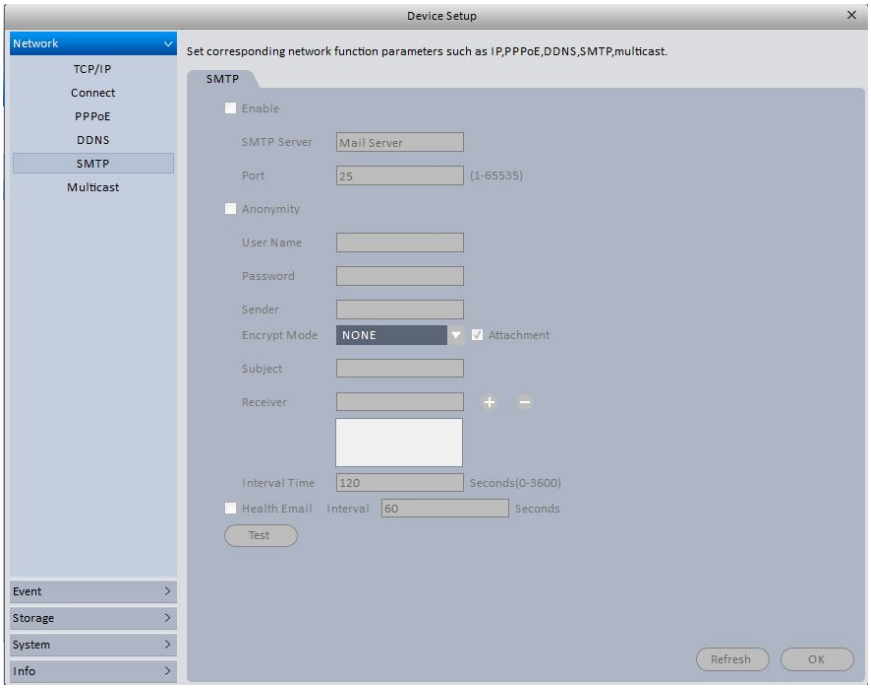


Figure 3-18

Please refer to the following sheet for detailed information.

Parameter	Function
Enable	Please check the box here to enable email function.
SMTP Server	Input server address and then enable this function.
Port	Default value is 25. You can modify it if necessary.
Anonymity	For the server supports the anonymity function. You can auto login anonymously. You do not need to input the user name. password and the sender information.
User Name	The user name of the sender email account.
Password	The password of sender email account.
Sender	Sender email address.
Encryption mode	System supports SSL/NONE/TLS.
Subject	Input email subject here.
Attachment	System can send out the email of the snapshot picture once you check the box here.
Receiver	Input receiver email address here. Max three addresses.
Interval	The send interval ranges from 0 to 3600 seconds. 0 means there is no interval. Please note system will not send out the email immediately when the alarm occurs. When the alarm, motion detection or the abnormity event activates the email, system sends out the email according to the interval you specified here. This function is very useful when there are too many emails activated by the abnormity events, which may result in heavy load for the email server.

Parameter	Function
Health mail enable	Please check the box here to enable this function.
Health mail interval	This function allows the system to send out the test email to check the connection is OK or not. Please check the box to enable this function and then set the corresponding interval. System can send out the email regularly as you set here.
Test	The system will automatically sent out a email once to test the connection is OK or not .Before the email test, please save the email setup information.

3.5.3.1.6 Multicast

The multicast interface is shown as in Figure 3-19.

Multicast is a transmission mode of data packet. When there is multiple-host to receive the same data packet, multiple-cast is the best option to reduce the broad width and the CPU load. The source host can just send out one data to transit. This function also depends on the relationship of the group member and group of the outer.

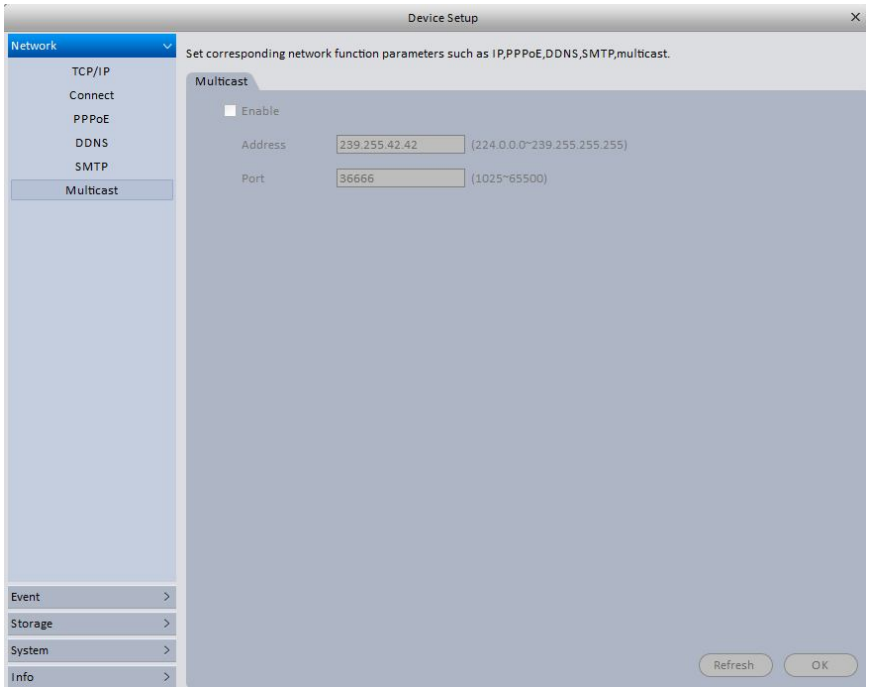


Figure 3-19

3.5.3.2 Event

Abnormality

It includes six statuses: No device, no space, device error, net offline, IP conflict and MAC conflict. See Figure 3-20 through Figure 3-25.

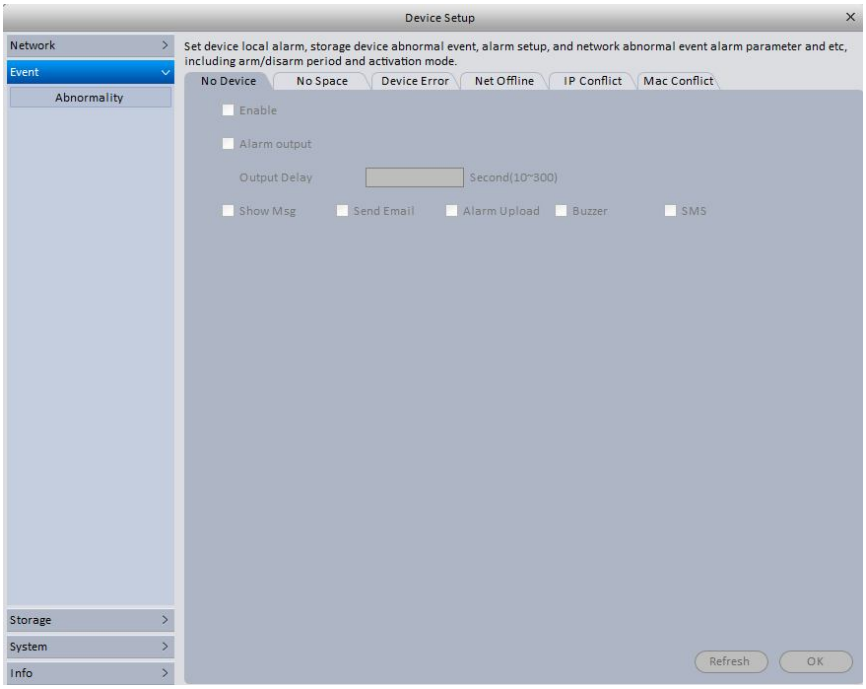


Figure 3-20

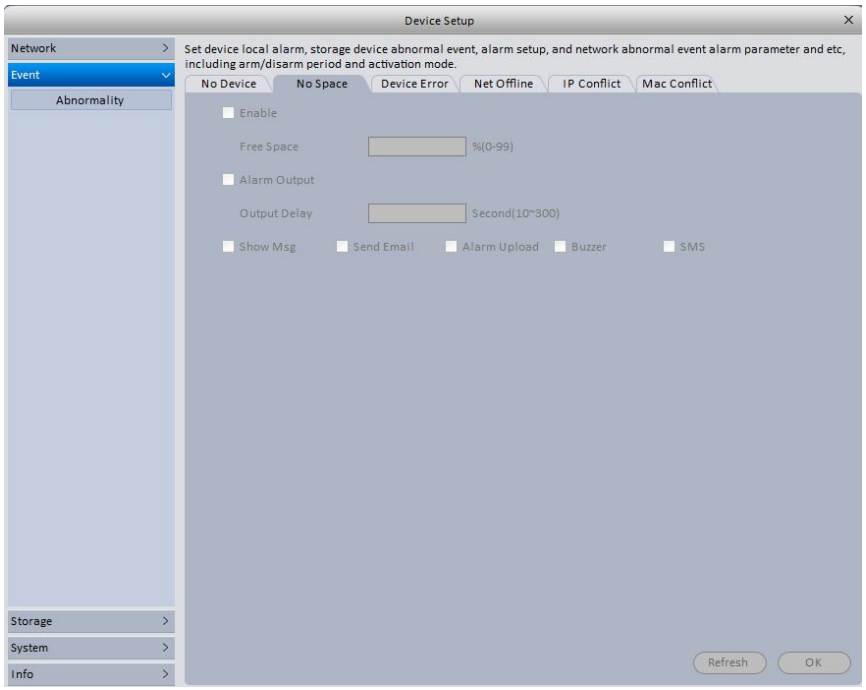


Figure 3-21

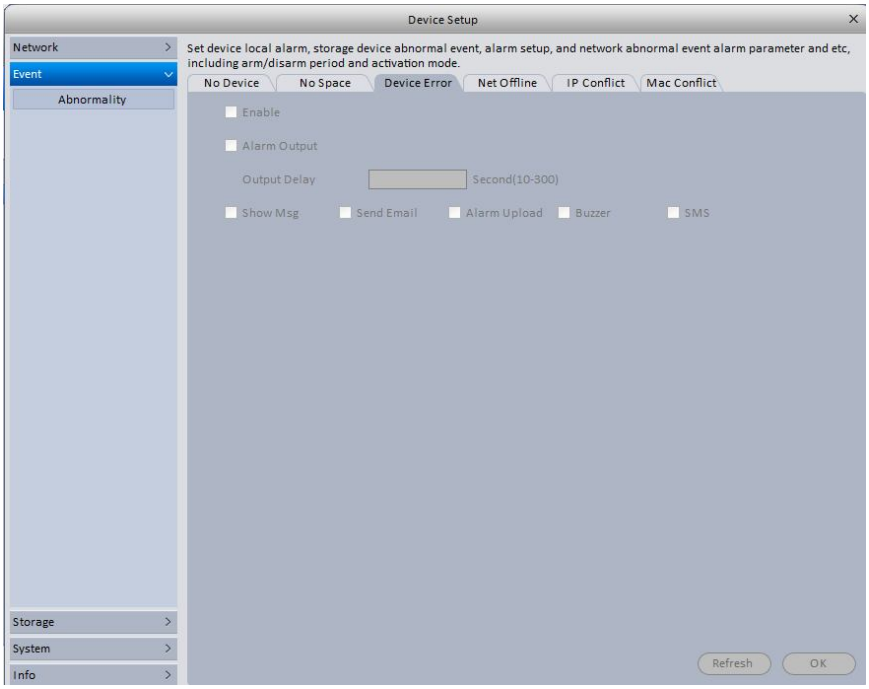


Figure 3-22

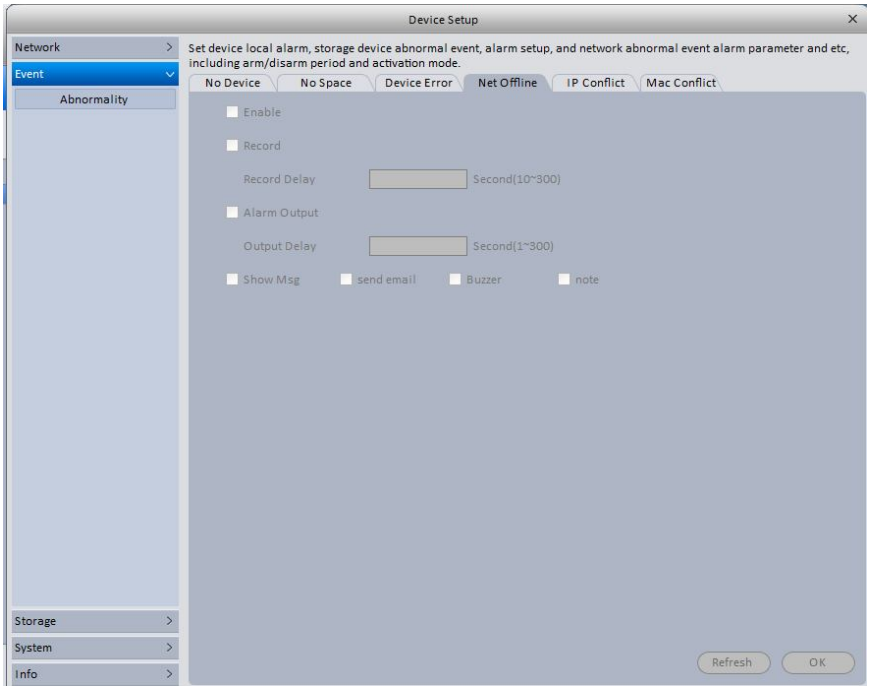


Figure 3-23

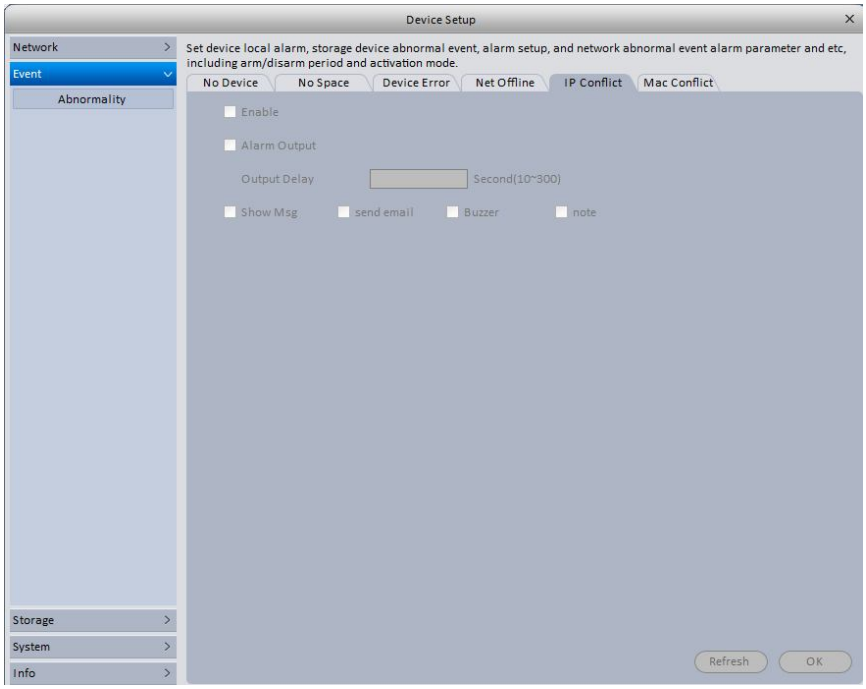


Figure 3-24

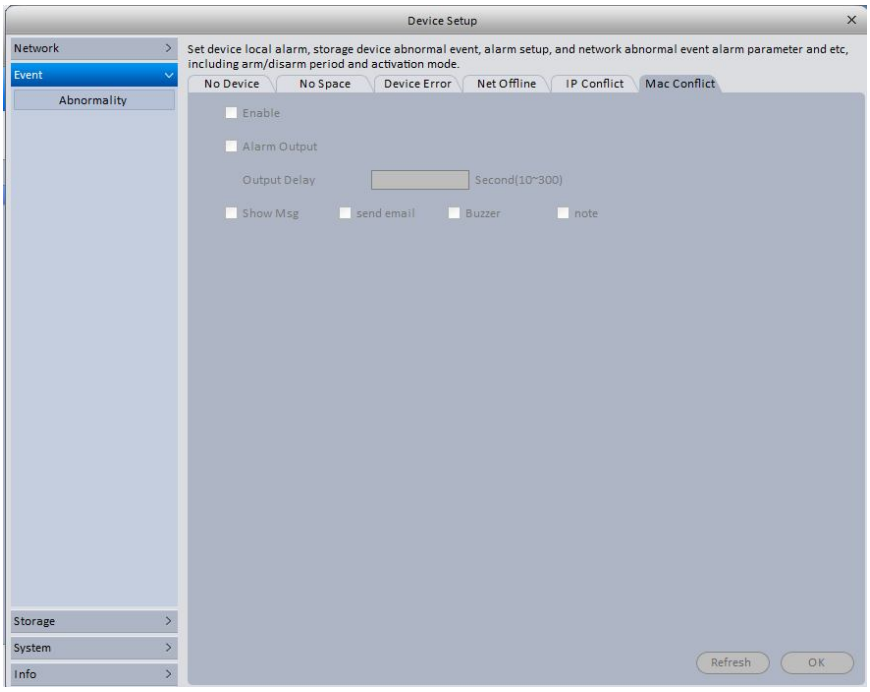


Figure 3-25

Please refer to the following sheet for detailed information.

Parameter	Function
Enable	Check the box here to enable selected function.
Alarm Output	Please select corresponding alarm output channel when an alarm occurs. You need to check the box to enable this function.
Output delay	The alarm output can delay for the specified time after an alarm stops.

Parameter	Function
Show message	System can pop up a message to alarm you in the local host screen if you enabled this function.
Alarm upload	System can upload the alarm signal to the centre (Including alarm centre.
Send Email	If you enabled this function, System can send out an email to alert you when an alarm occurs.
Buzzer	Check the box here to enable this function. The buzzer beeps when an alarm occurs.
SMS	If you enabled this function, System can send out a message to specified phone to alert you when an alarm occurs.

3.5.3.3 Storage

3.5.3.3.1 Local Store

The local interface is shown as in Figure 3-26. Here you can save data to local SD card or HDD.

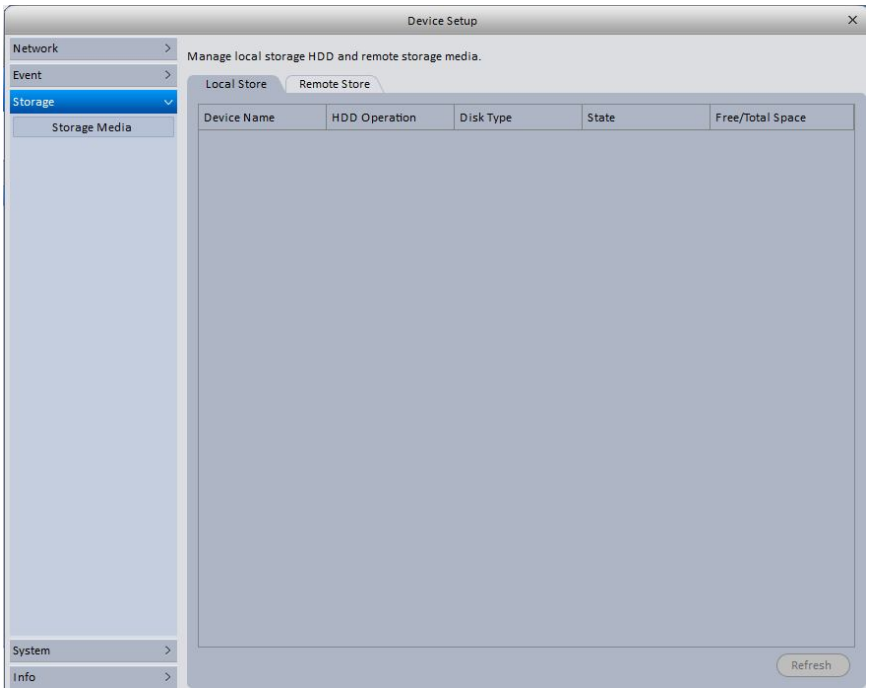


Figure 3-26

3.5.3.3.2 Remote store

It is for you to upload data to a PC via FTP. See Figure 3-27.

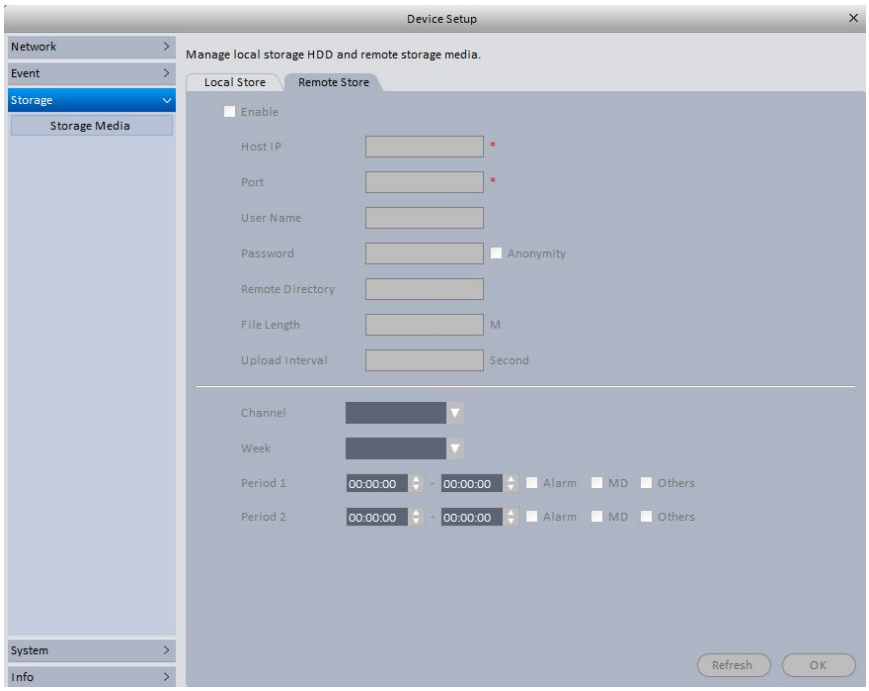


Figure 3-27

3.5.3.4 System

3.5.3.4.1 Host

Here you can set system time, date format, record period and etc. See Figure 3-28.

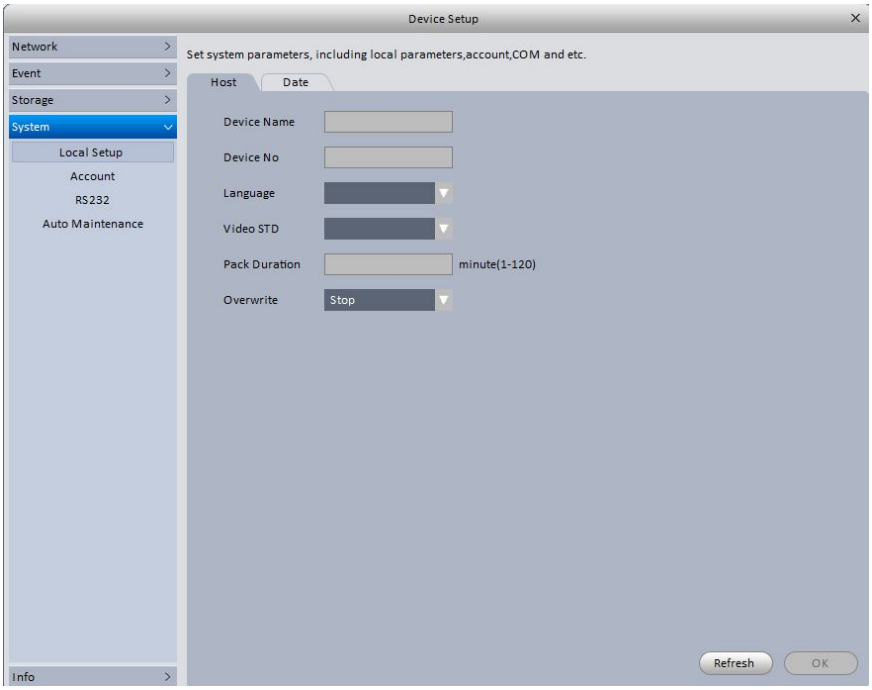


Figure 3-28

Please refer to the following sheet for detailed information.

Parameter	Function
Device name	It is to set device name.

Device No.	When you are using one remote control to manage multiple devices, you can give a serial numbers to the device. Before the operation, please make sure you have clicked address button on the remote control and input an number for current device.
Language	You can select the language from the dropdown list. **Please note the device needs to reboot to get the modification activated.**
Video Standard	This is to display video standard such as NTSC / PAL.
HDD full	Here is for you to select working mode when hard disk is full. There are two options: stop recording or rewrite. • If current working HDD is overwritten or the current HDD is full while the next HDD is no empty, then system stops recording, • If the current HDD is full and then next HDD is not empty, then system overwrites the previous files.
Pack duration	Here is for you to specify record duration.

3.5.3.4.2 Date

The date and time interface is shown as in Figure 3-29.

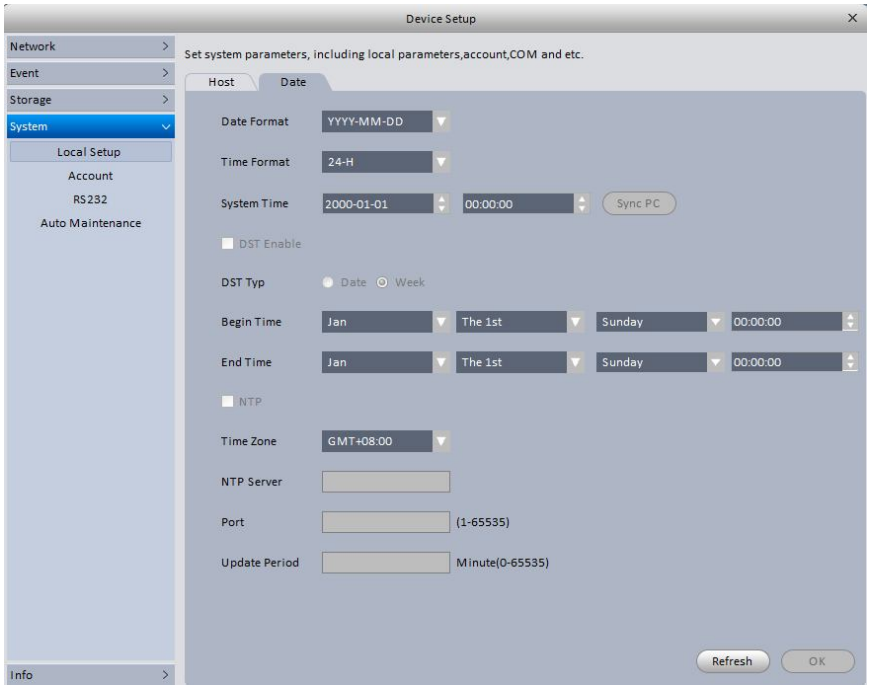


Figure 3-29

Please refer to the following sheet for detailed information.

Parameter	**Function**
Date format	Here you can select date format from the dropdown list.
Time Format	There are two options: 24-H and 12-H.
Time zone	The time zone of the device.

System time	It is to set system time. It becomes valid after you set.
Sync PC	You can click this button to save the system time as your PC current time.
DST enable	Here you can set day night save time begin time and end time. You can set according to the date format or according to the week format.
NTP	You can check the box to enable NTP function.
NTP server	You can set the time server address.
Port	It is to set the time server port.
Update period	It is to set the sync periods between the device and the time server.

3.5.3.4.3 Account

Here you can add/modify/delete a group or add/modify/delete a user. System default user group is admin/user. System default user is admin.

Here we are going to add a new user overseas under group Test.

In the following interface, click Add group button. See Figure 3-30.

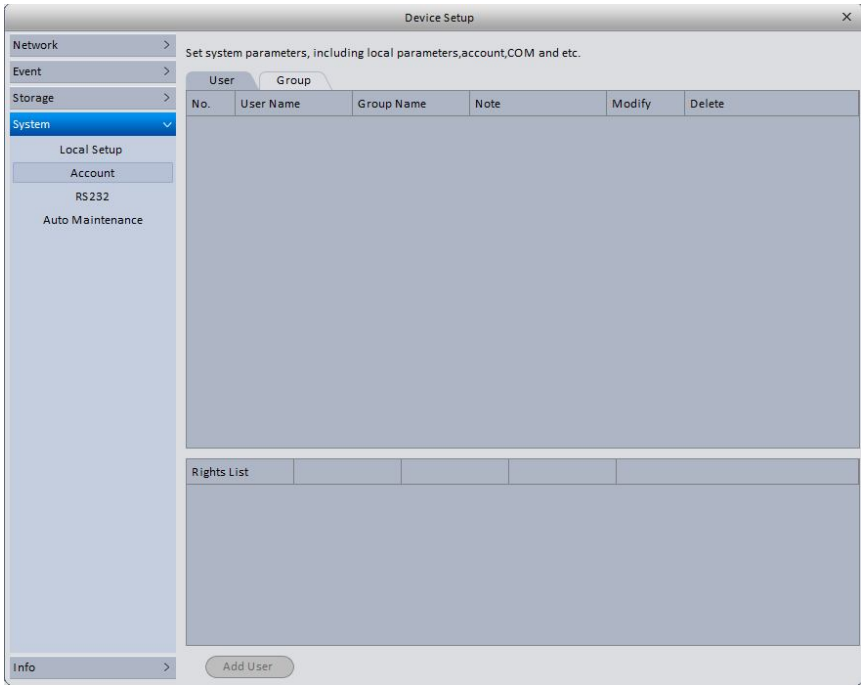


Figure 3-30

You can see system pops up the following interface. See Figure 3-31. Please input a group name such as Overseas and then select corresponding rights, input some note information if necessary. Click OK button to exit.

Figure 3-31

Go to the User interface, here you can add/remove user and modify user name. See Figure 3-32.

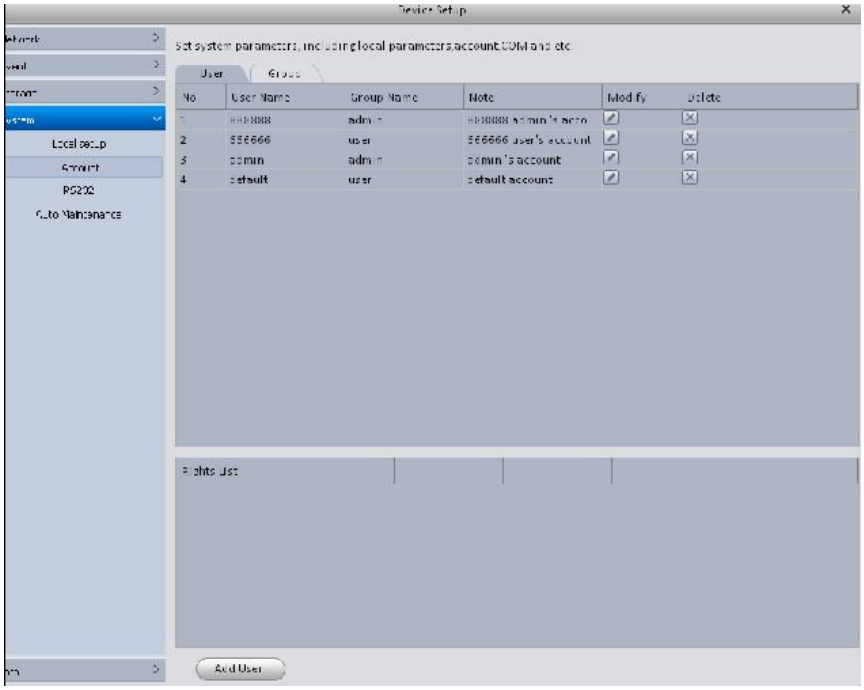


Figure 3-32

Click Add user button, you can see the following interface. See Figure 3-33. Please input user name such as Test, password, and select group Overseas from the dropdown list. Select corresponding rights and then click OK button.

Tips

If you want to multiple users to use this account login at the same time, you need to check the box to select reusable function.

Figure 3-33

Now you can see you have added a new user “Test” under group Overseas. See Figure 3-34.

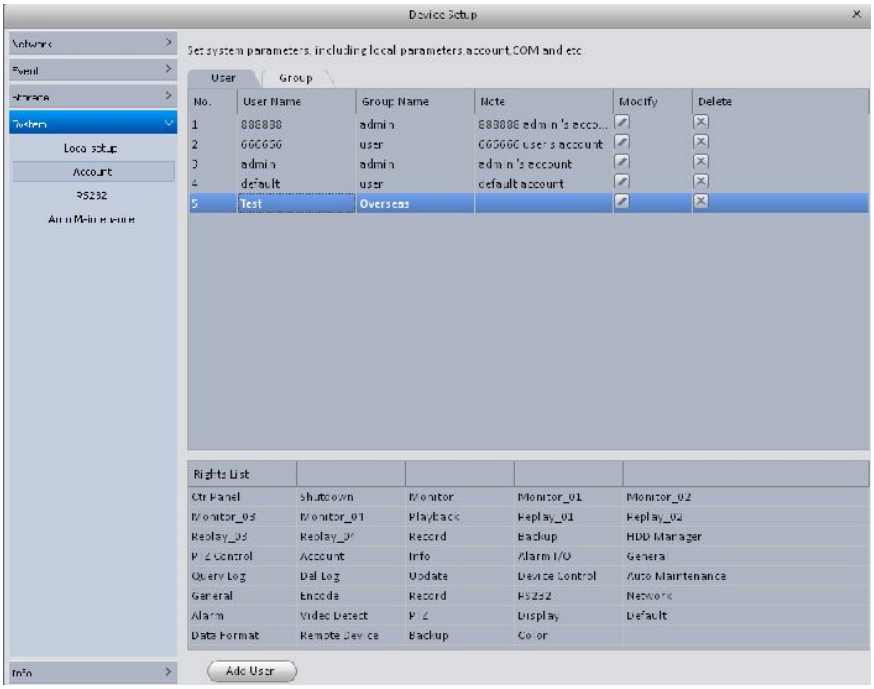


Figure 3-34

3.5.3.4.4 RS232

The RS232 interface is shown as in Figure 3-35.

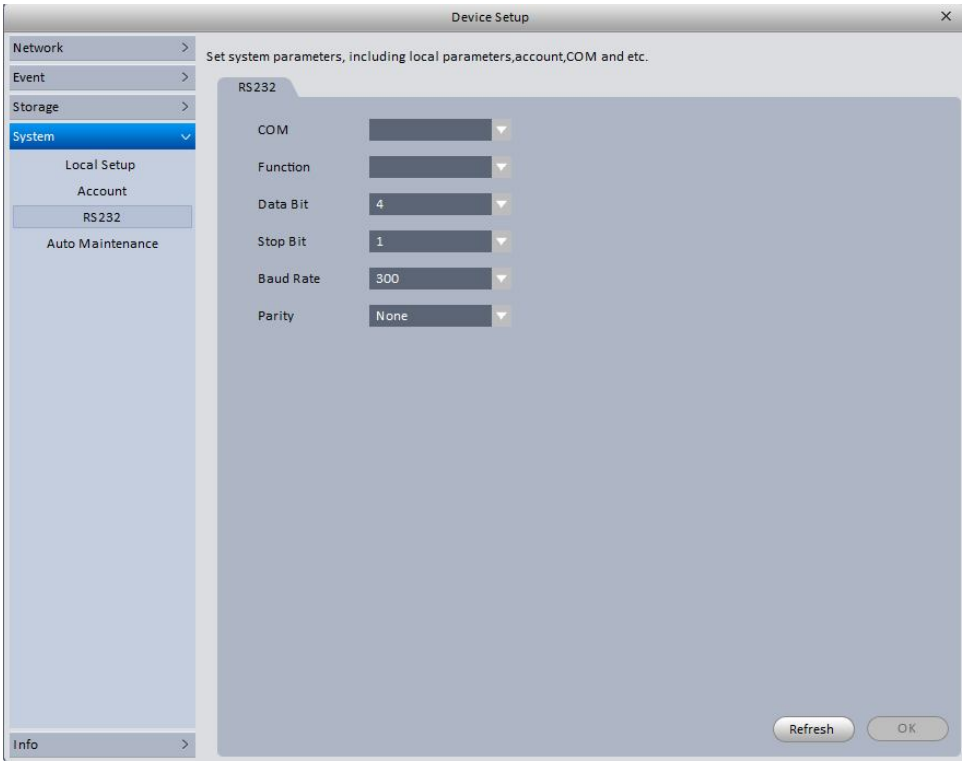


Figure 3-35

Please refer to the following sheet for detailed information.

Parameter	Function
COM	You can select from the dropdown list.
Function	There are various devices for you to select. ● Console is for you to use the COM or mini-end software to upgrade or debug the program. ● The control keyboard is for you to control the device via the special keyboard. ● Transparent COM (adapter) is to connect to the PC to transfer data directly. ● Protocol COM is for card overlay function. ● Network keyboard is for you to use the special keyboard to control the device.
Baud Rate	Default setup is 115200.
Data Bit	Default setup is 8.
Stop bit	Default setup is 1.
Parity	Default setup is none.

3.5.3.4.5 Auto Maintenance

Here you can set auto-reboot time and auto-delete old files setup. You can set to delete the files for the specified days. See Figure 3-36.

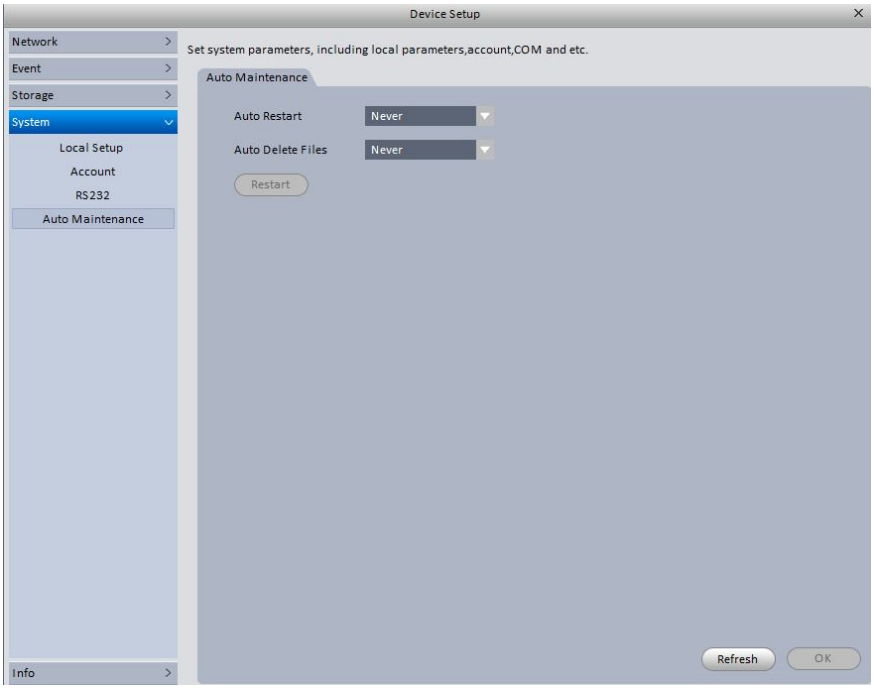


Figure 3-36

3.5.3.5 Info

Here you can view system version information, log information and backup log files to PC.

3.5.3.5.1 Version

Version interface is shown as below. See Figure 3-37.

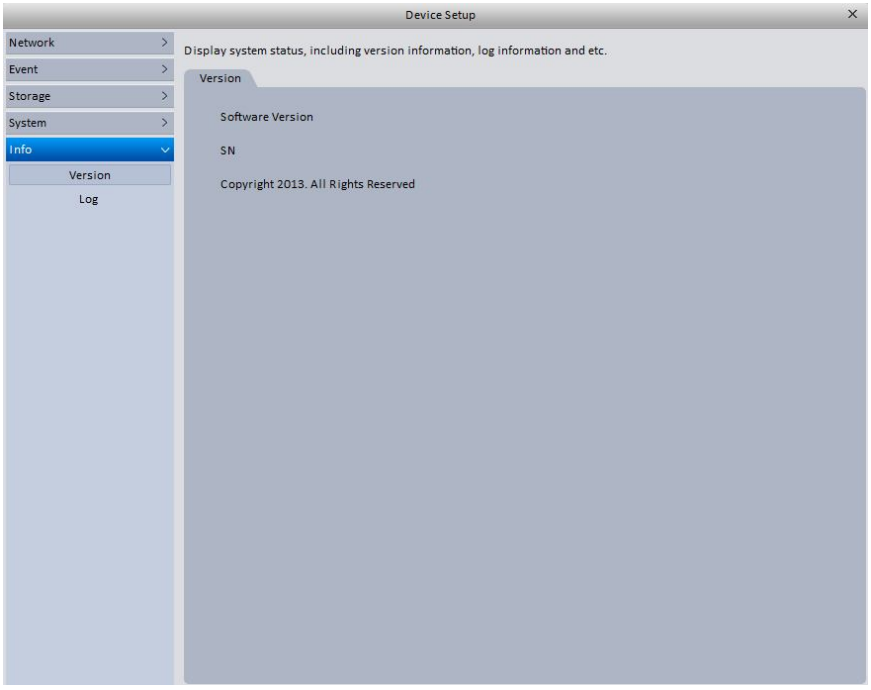


Figure 3-37

3.5.3.5.2 Log

Log interface is shown as in Figure 3-38.

Select start time/end time, and select type from the dropdown list. Click Query button, you can see the log information.

Select one log file, you can view its detailed information at the bottom of the interface.

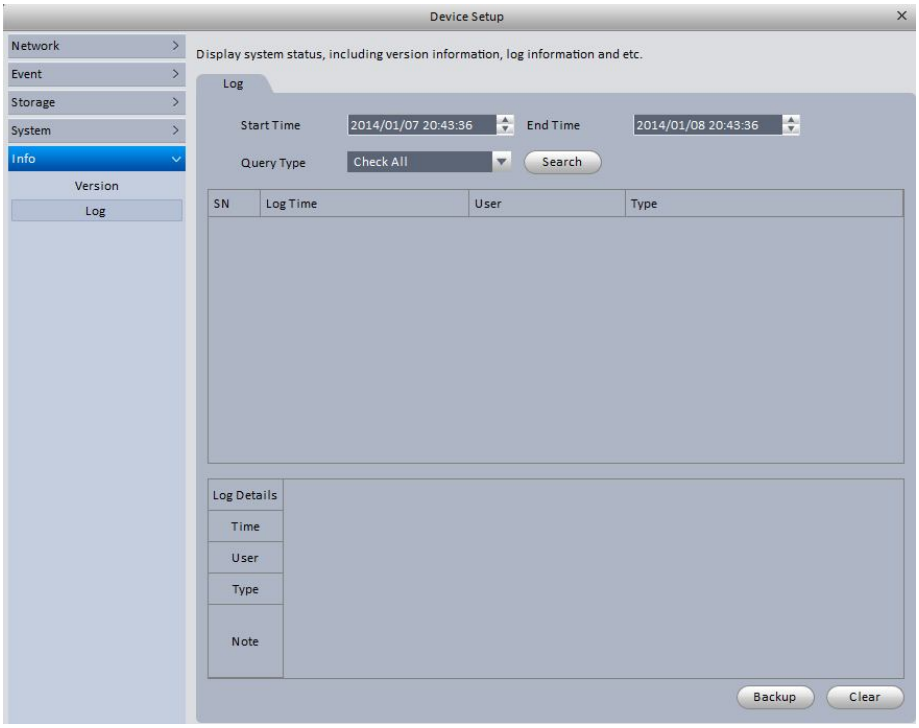


Figure 3-38

3.6 Alarm Setup

3.6.1 Set Alarm Scheme

Note

Before you set alarm scheme, you need to set alarm input channel and group on the alarm input/output interface. Please refer to chapter 오류! 참조 원본을 찾을 수 없습니다..

You can follow the steps listed below to set an alarm scheme.

1) Click the icon , you can go to alarm configuration interface. See Figure 3-39.

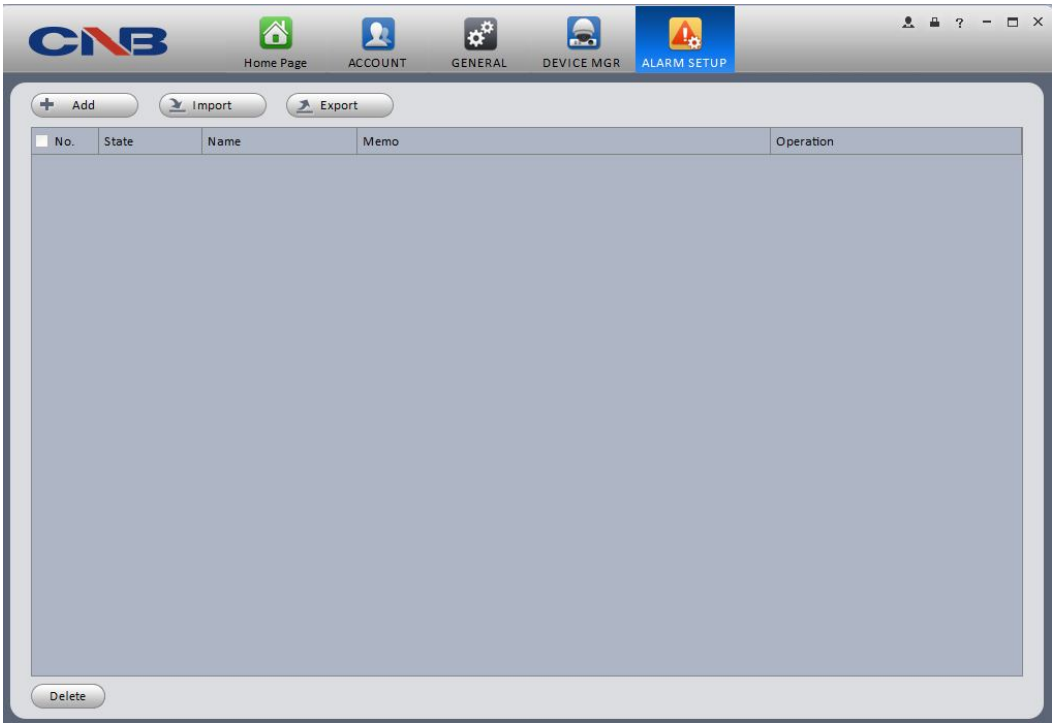


Figure 3-39

2) Click Add button, you can set scheme information. See Figure 3-40.

Please refer to the following sheet for detailed information.

Item	Function
Scheme name	Please input a scheme name here.
Memo	You can input some description information here if necessary.
Time	Input arm/disarm period and select corresponding level. ● All-day: It is to arm the alarm scheme for a whole day. ● Period: You can set different periods for each scheme. You can use ⊕ to add period, or you can use ⊖ to delete period. **Note:** **On period mode, the rest period here refers to the free periods you have not set.**
Audio	It is to set alarm sound. ● Alarm type: It is to select alarm type you want to enable sound function. ● Sound path: Select audio file path. You can click Browse button to select the audio file you want to use. ● Loop play: Check the box here, system can play the audio repeatedly when a corresponding alarm occurs. ● Play: Click it to hear current audio file. ● Default: For non-customized alarm type, you can click this button to restore default setup.
Others	Check the “E-map flash when an alarm occurs”, you can see the corresponding icon on the e-map flashes when an alarm occurs.

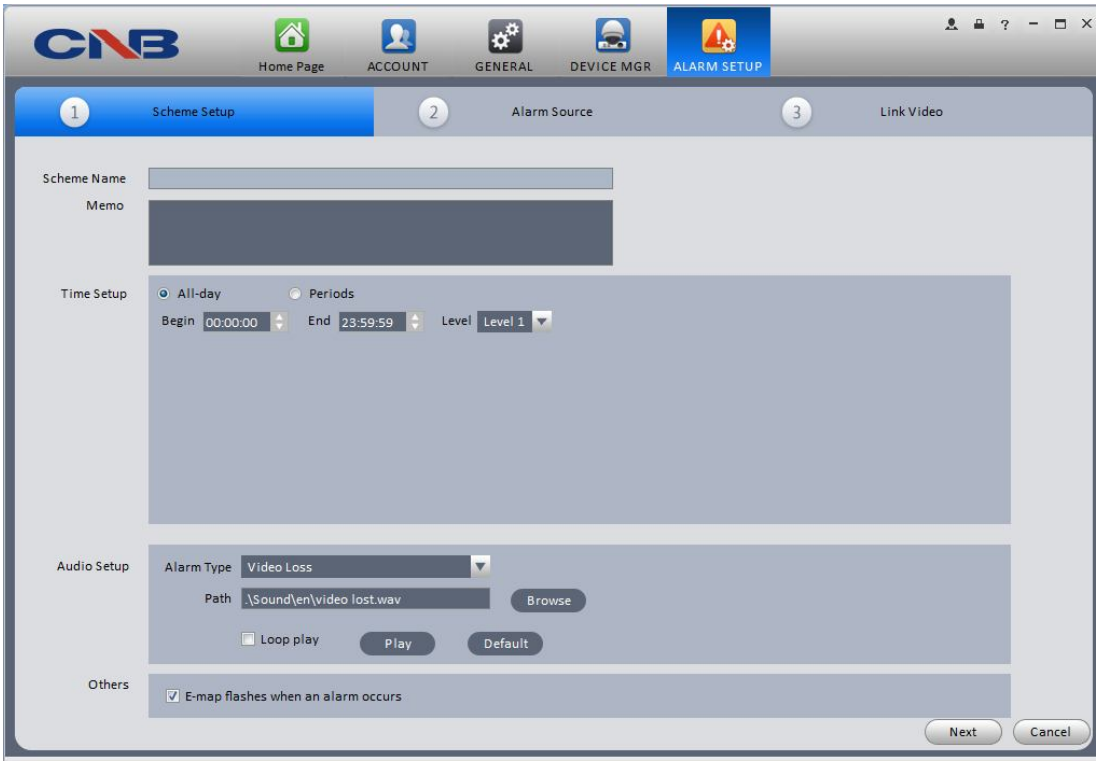


Figure 3-40

3) Set alarm source.

a) Click

, system goes to alarm source setup interface. Or you can click next button in 오류! 참조 원본을 찾을 수 없습니다. to go to the following interface. See Figure 3-41.

b) Here you can select channel you want to set alarm scheme on the left pane and then check the alarm type.

c) Click

, you can add alarm source to the right pane. See Figure 3-41.

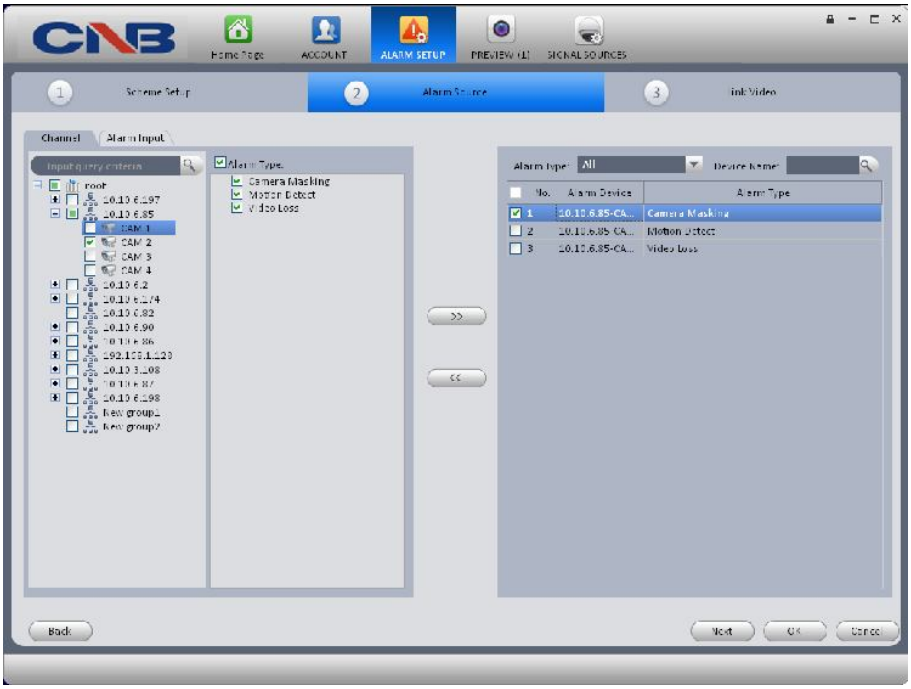


Figure 3-41

.

Note

You can select corresponding alarm source on the right pane and then click to delete an alarm source.

d) Click Alarm input label on the left pane, check the alarm input channel. See Figure 3-42.

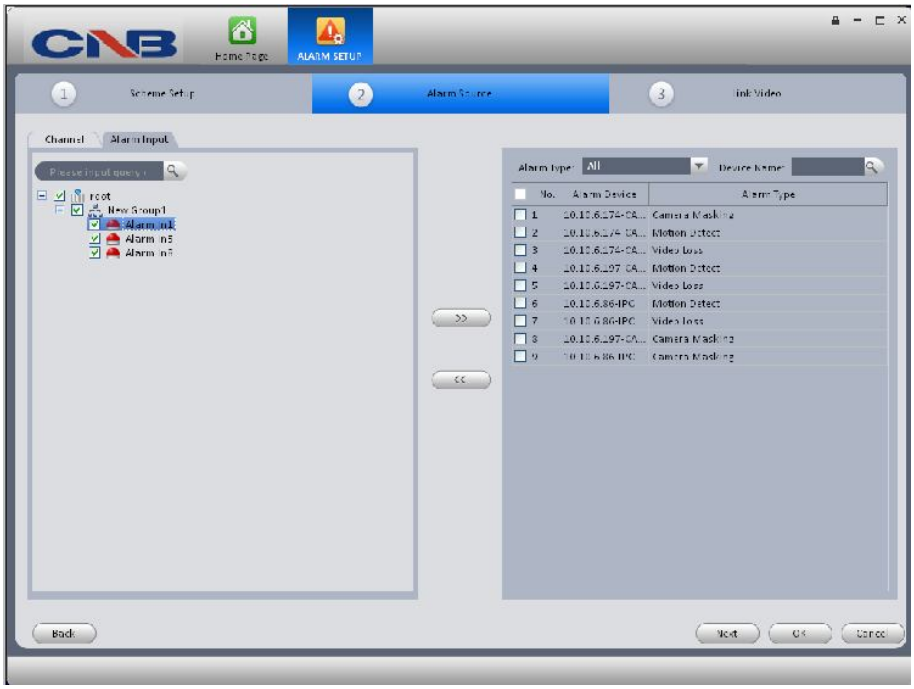


Figure 3-42

e) Click OK button, you can view the scheme information on the alarm setup interface. See Figure 3-43.

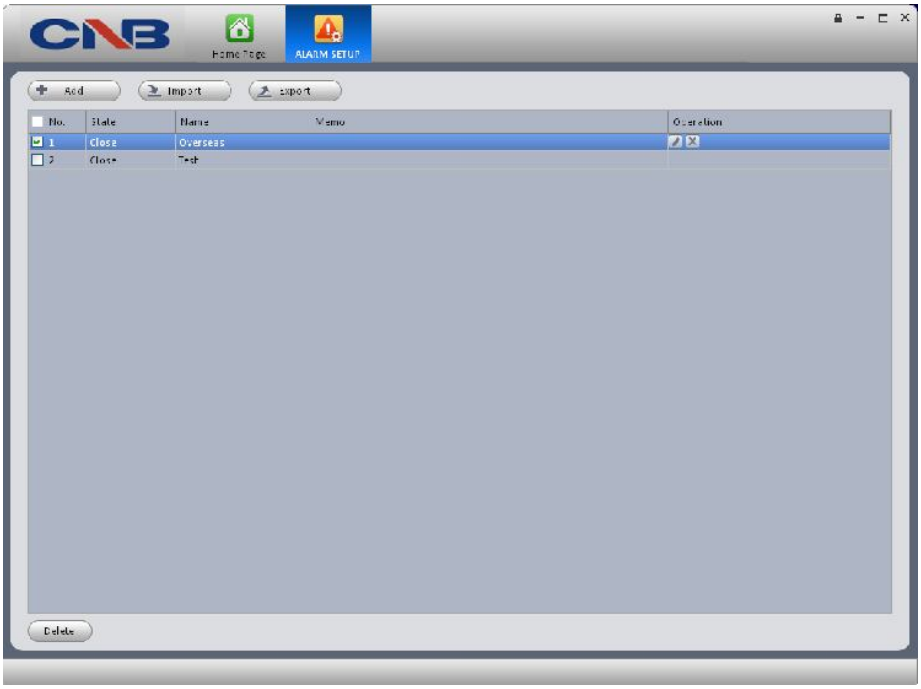


Figure 3-43

Note

- If you want to set alarm activation video, you can click Next button in Figure 3-43, or you can click

to set.
- In Figure 3-43, you can select an alarm scheme and then select Delete button to remove.

3.6.2 Alarm Activation Video

Note

Before you set alarm activation video, you need to go to alarm input/output interface to set alarm output channel and group. See chapter 오류! 참조 원본을 찾을 수 없습니다..

This function allows you to set activation video when an alarm occurs.

1) Click icon , you can go to alarm configuration interface.

2) Double click the

, system goes to alarm activation video interface.

   Or you can click the Next button at the right bottom of the alarm source setup interface to go to alarm activation video interface.

3) Select alarm source on the left pane.

4) Click link video to set preset and stay time, check the activation channel and click

.

   Now you can view the alarm activation video on the right pane. See Figure 3-44.

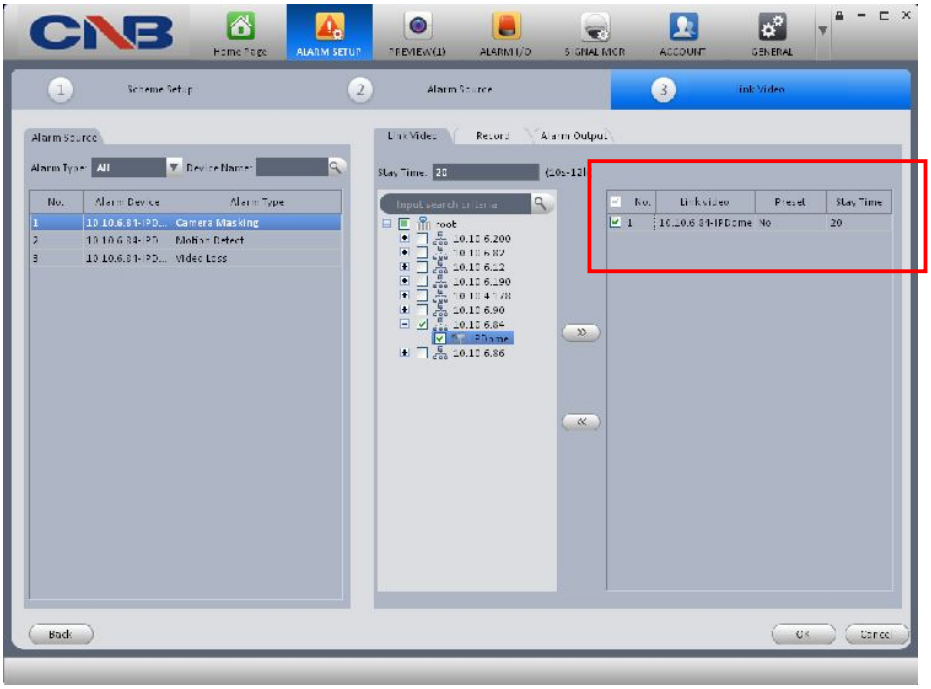


Figure 3-44

Note

- In Figure 3-45, you can double click stay time to change its contents.
- You can select a scheme and then click to remove activation video.

5) Click Record label to go to record interface, you can record the activation video.
6) Select alarm source on the left pane on the record interface.
7) Select the activation record channel and then click button . Now you can view the activation channel on the right pane. See Figure 3-45.

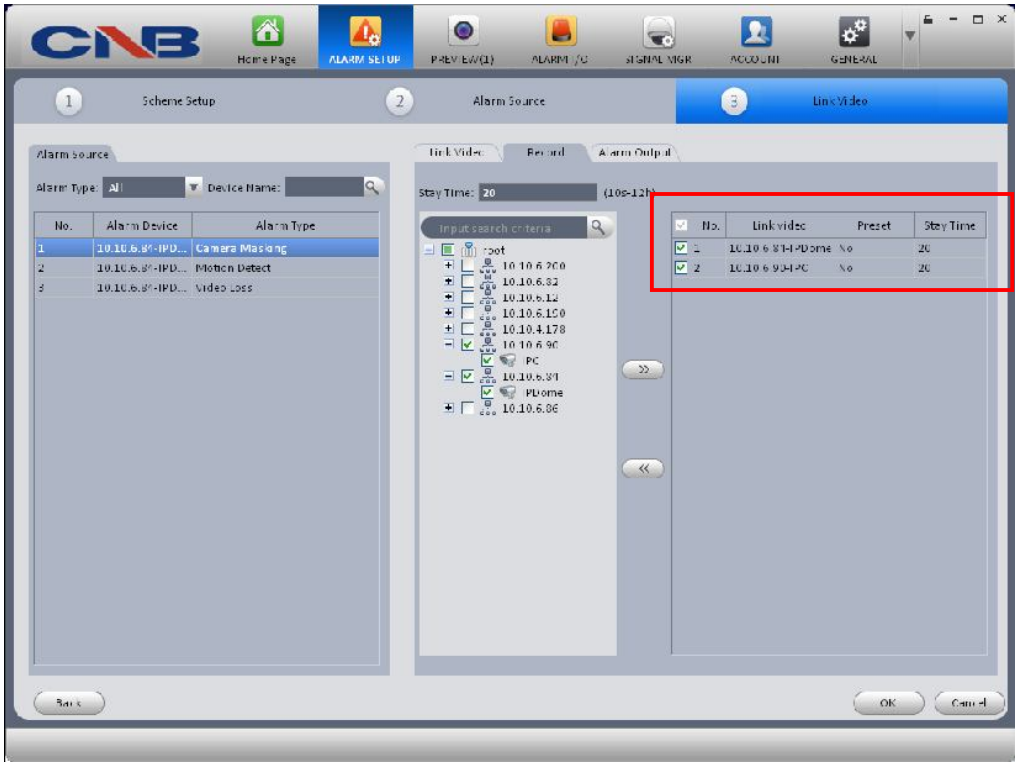


Figure 3-45

Tips

- For the activation video in the list, double click preset/stay time; you can change its value.
- For the activation record channel in the list, click « to delete a record channel.

8) Click alarm output label, you can go to alarm output interface. See 오류! 참조 원본을 찾을 수 없습니다..

9) Here you can check the box to enable auto output device function and input stay time. Please select channels from the device channel list and then click » to add activation output. Or you can change setup directly on the right pane. See Figure 3-46.

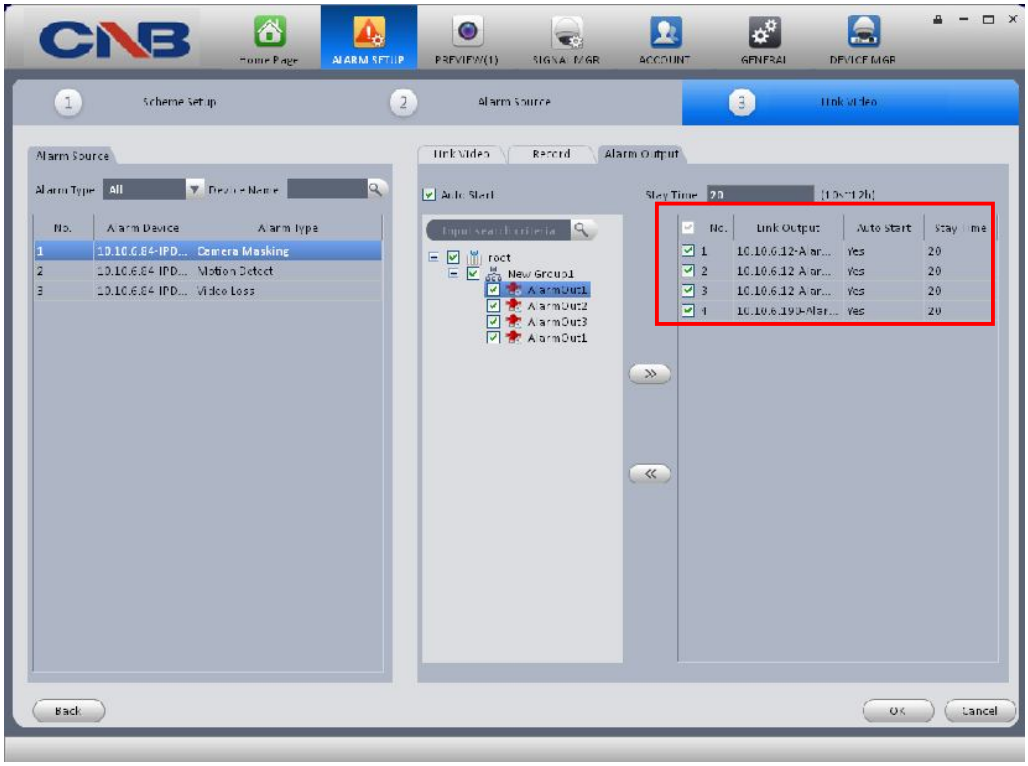


Figure 3-46

10) Click OK button to complete setup.

3.6.3 Enable/Disable/Export Scheme

After you added scheme, click the Open on State column, you can see it becomes disable. Click it again to enable current scheme, you can see state is open now. Click

button to import/export scheme.

3.7 Signal Manager

Here is for you to set channel audio/video bit stream, resolution, overlay information, record plan, video detect, picture property, and PTZ.

Here you can also set device network function, alarm setup, storage management, system parameter, and version and log information.

On the main interface, click button on the setting pane. System goes to the following interface. See Figure 3-47.

On the left pane, you can double click a channel name to set its corresponding information.

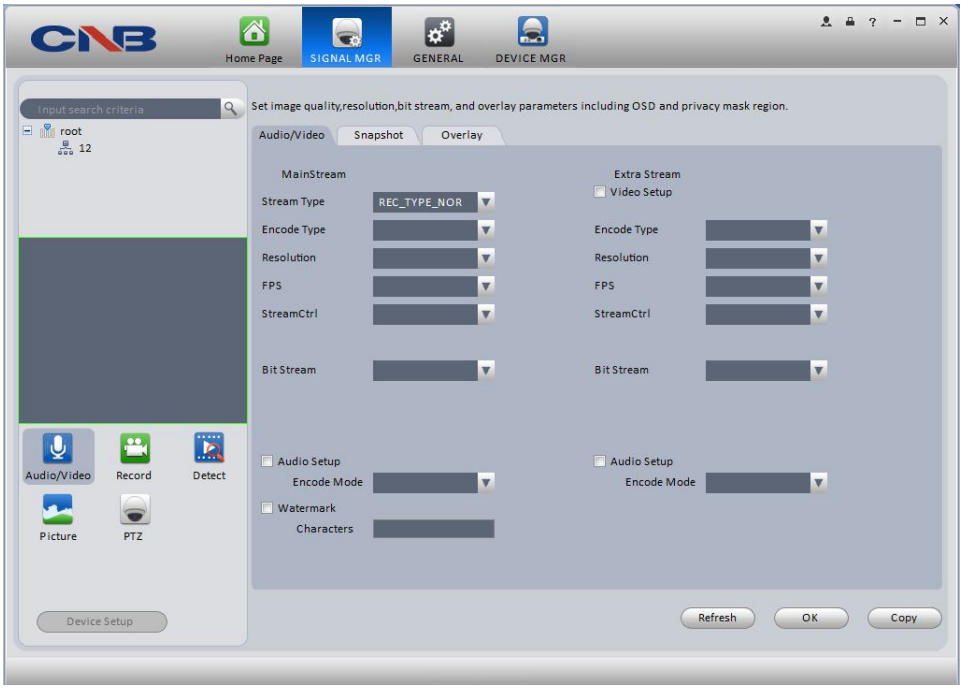


Figure 3-47

3.7.1 Audio/Video

3.7.1.1 Audi/Video

The interface is shown as below. See Figure 3-48. Here you can set audio/video bit stream.

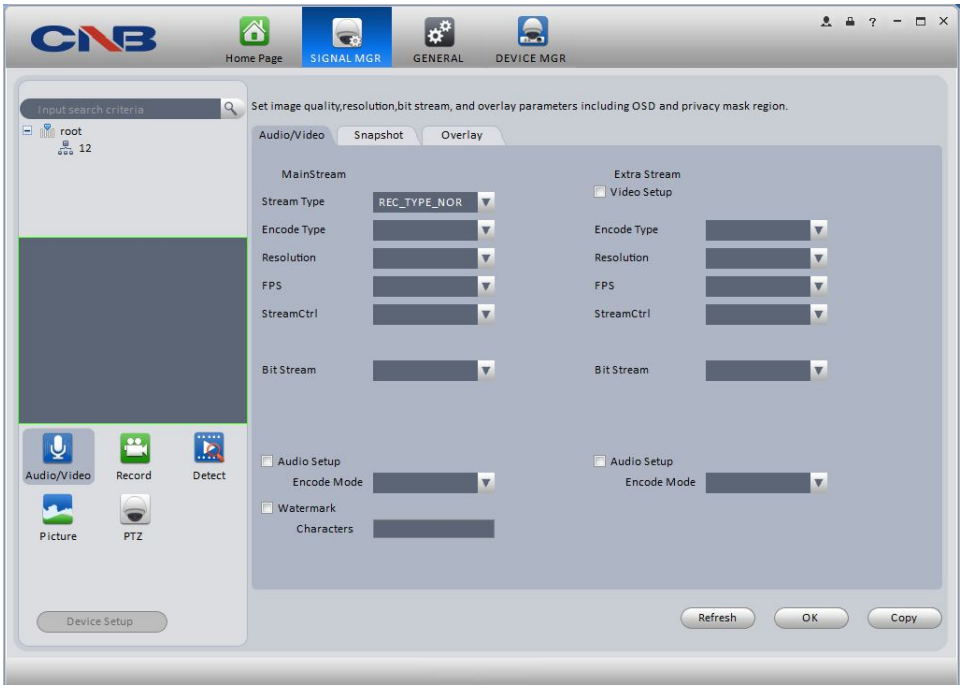


Figure 3-48

Please refer to the following sheet for detailed information.

Parameter	Function
Video enable	Check the box here to enable extra stream video. This item is enabled by default.

Stream type	It includes main stream, motion stream and alarm stream. You can select different encode frame rates form different recorded events.
Encode mode	It is to set audio/video encode mode. Default setup is H.264.
Resolution	System supports various resolutions, you can select from the dropdown list.
FPS	PAL：1～25f/s；NTSC：1～30f/s.
Bit stream	In VBR mode, it is the max value of the bit stream. In the CBR mode, it is a fixed value.
Quality	You can select from the dropdown list.
Audio encode mode	Check the box here to enable audio function and select encode type from the dropdown list.
Watermark enable /watermark character	This function allows you to verify the video is tampered or not. Here you can select watermark bit stream, watermark mode and watermark character. Default character is DigitalCCTV.
Copy	Click it to copy current setup to other channel(s).

3.7.1.2 Snapshot

The snapshot interface is shown as below. See Figure 3-49.

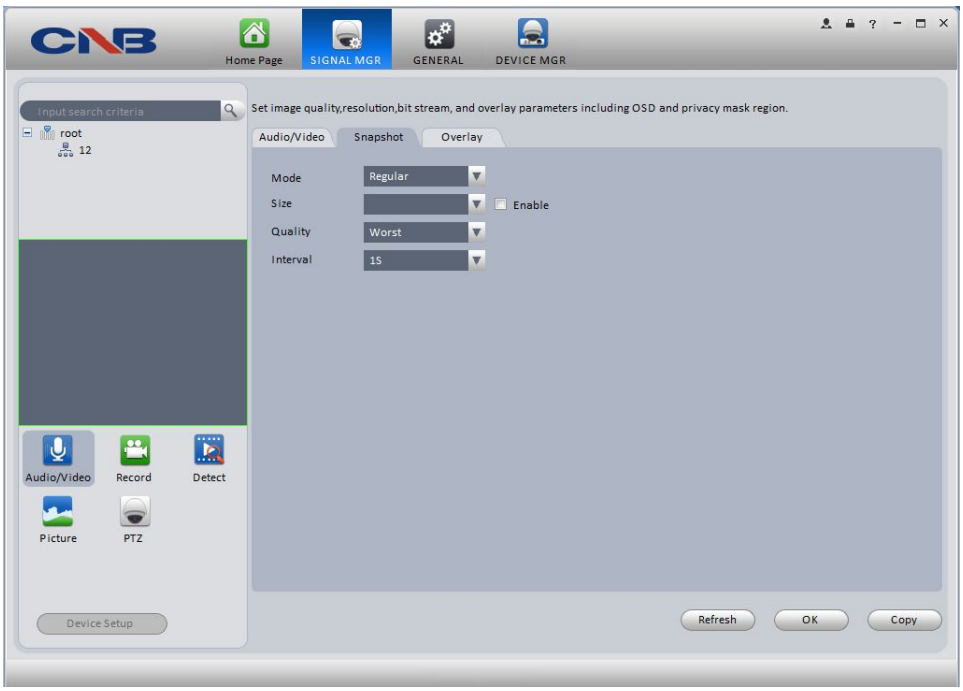


Figure 3-49

Please refer to the following sheet for detailed information.

Parameter	Function
Snapshot type	There are three modes. ● Normal: It enables snapshot function as you set on the snapshot plan. ● MTD: It enables snapshot function when motion detect

	occurs. ● Alarm: It enables snapshot function when alarm occurs.
Image size	It is the same with the resolution of the main stream.
Quality	It is to set the image quality.
Interval	It is to set snapshot frequency.
Copy	Click it; you can copy current channel setup to other channel(s).

3.7.1.3 Video Overlay

Here is for you to overlay information on the video. See Figure 3-50.

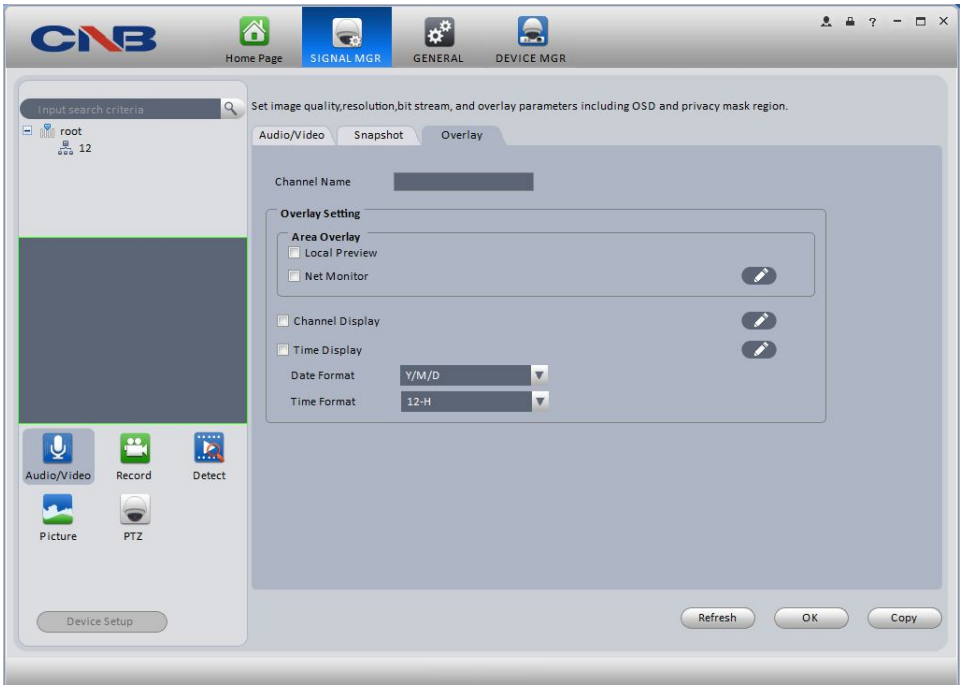


Figure 3-50

Please refer to the following sheet for detailed information.

Parameter	Function
Area-overlay (Privacy mask)	There are two types: Local preview/network monitor. Local preview: It is to shield the corresponding video under local preview mode. Network monitor: It is to shield the corresponding video under network monitor mode. Click button to set privacy mask zone.
Channel display	You can enable this function so that system overlays channel information in video window. Please input channel name here. You can use the mouse to drag the channel title position.
Time display	You can enable this function so that system overlays time information in video window. You can use the mouse to drag the time title position. You can view time title on the live video of the WEB or the playback video.

Date format	Select date format from the dropdown list if you want to overlay date.
Time format	Select date format from the dropdown list if you want to overlay date.
Copy	Click it; you can copy current channel setup to other channel(s).

3.7.2 Record

3.7.2.1 Schedule record/Schedule snapshot

You can set the corresponding period to enable schedule record/snapshot function. You can follow the steps listed below to set schedule record function.

1) On the main interface, click to go to the device setup interface.
2) Click record button, you can go to the following interface. See Figure 3-51.

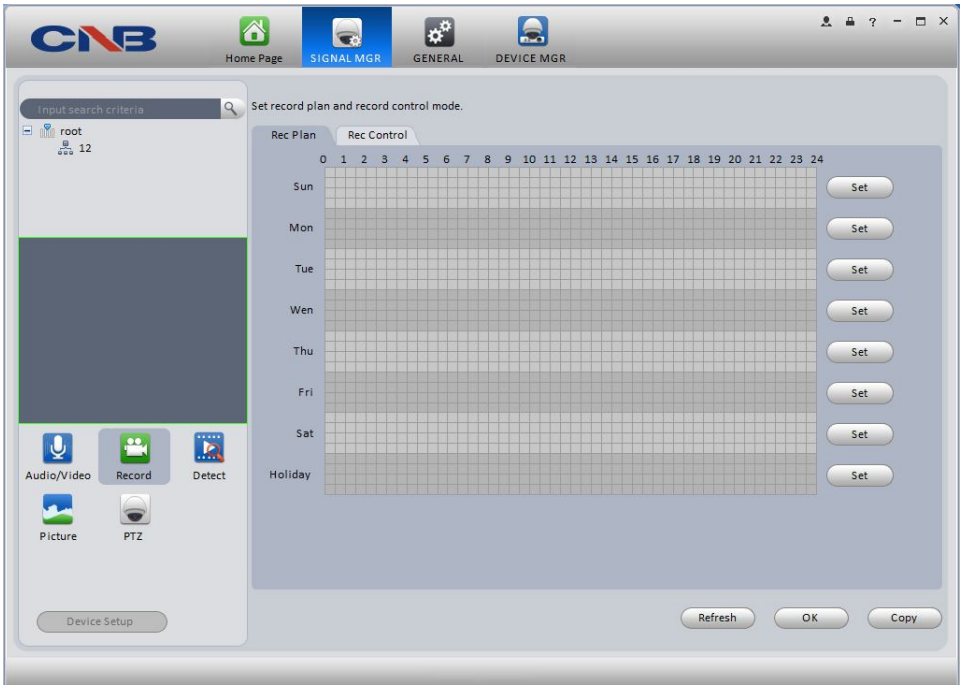


Figure 3-51

3) Click Set button after corresponding date, you can see an interface shown as below. See Figure 3-52.

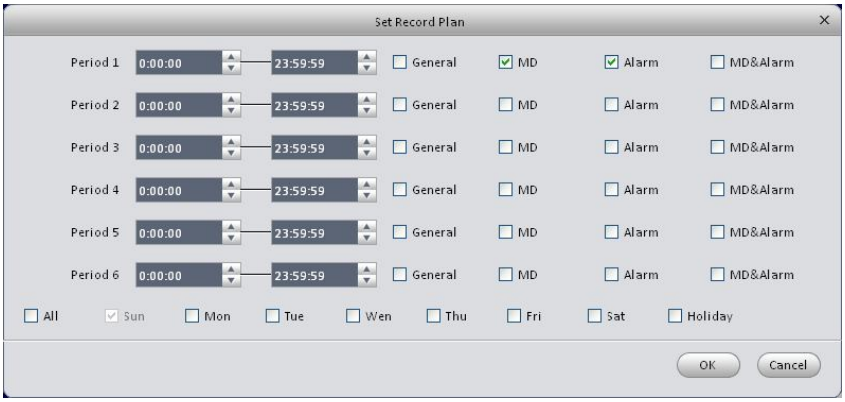


Figure 3-52

4) Set record period and check the box to select record type. Click OK button, now you can see an interface shown as in Figure 3-53.

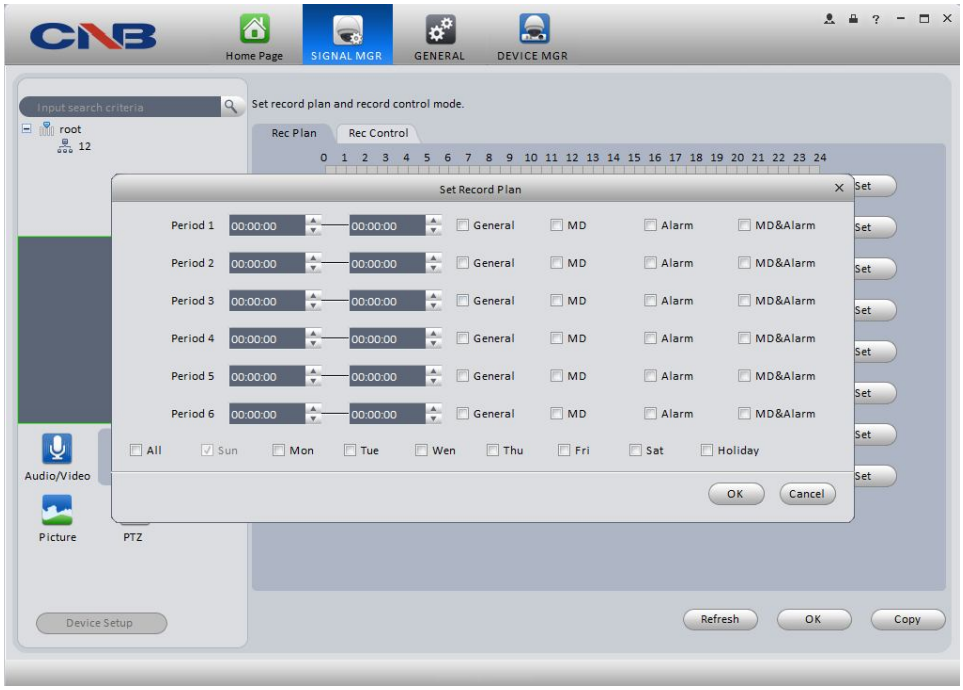


Figure 3-53

You can view the current time period setup from the color bar.

- Green color stands for the general record/snapshot.
- Yellow color stands for the motion detect record/snapshot..
- Red color stands for the alarm record/snapshot.

Tips

Click Copy button to copy current setup to other date.

3.7.2.2 Record control

It is for you to set record control mode. See Figure 3-54.

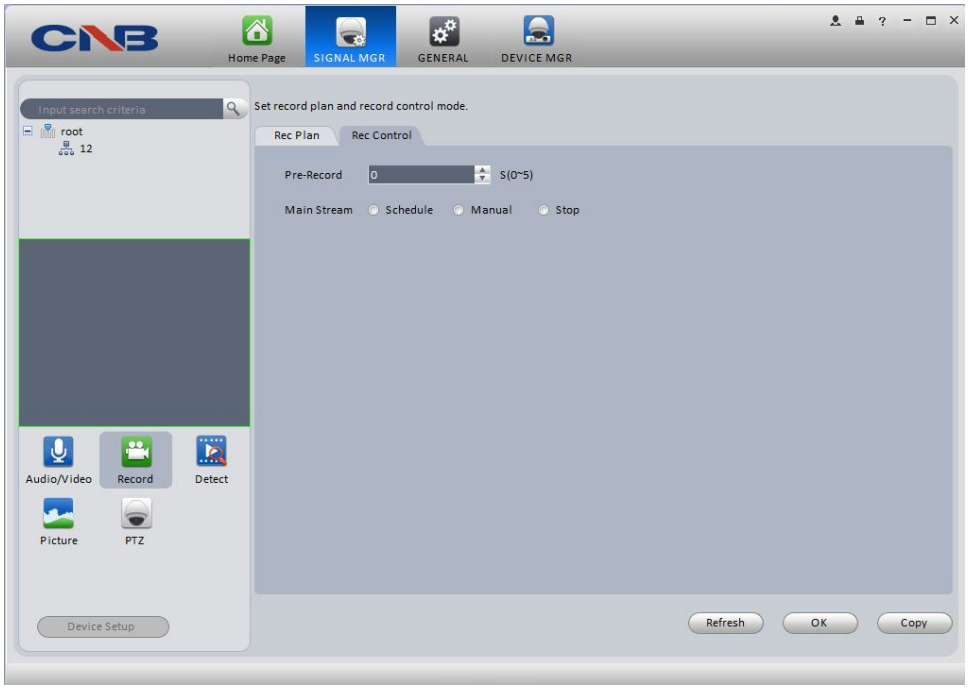


Figure 3-54

Please refer to the following sheet for detailed information.

Parameter	Function
Pre-record	Please input pre-record time here.
Main stream	It is to set main stream record mode. It includes: Schedule/manual/stop.
Extra stream	It is to set extra stream record mode. It includes: Schedule/manual/stop.

3.7.3 Detect

The video detect includes three types:

- Motion detect: Through analyze video, system can enable motion detect alarm when it detects any moving signal that reaches the sensitivity threshold you set here.
- Video loss: This function allows you to be informed when video loss phenomenon occurred. You can enable alarm output channel and then enable show message function.
- Camera masking: When someone viciously masks the lens, or the output video is in one-color due to the environments light change, the system can alert you to guarantee video continuity.

Here we use motion detect interface as an example. See Figure 3-55.

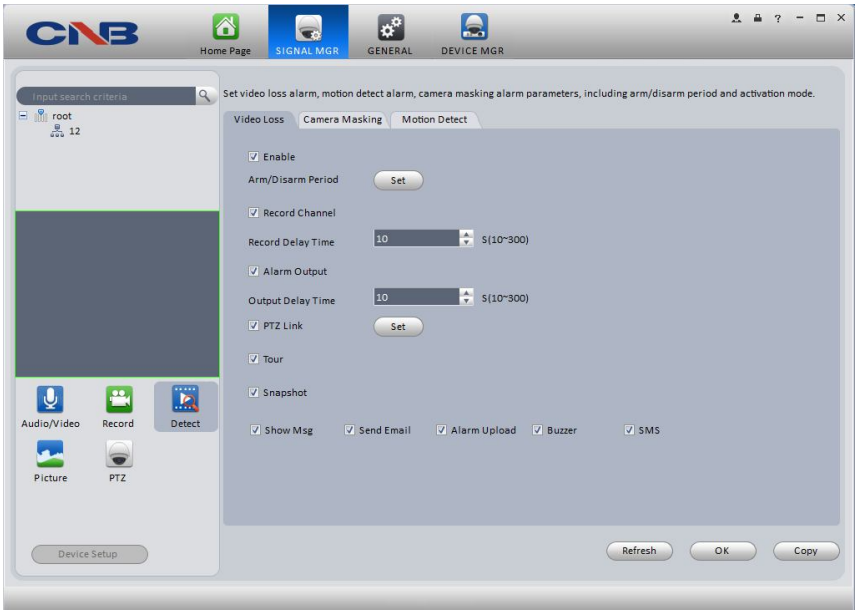


Figure 3-55

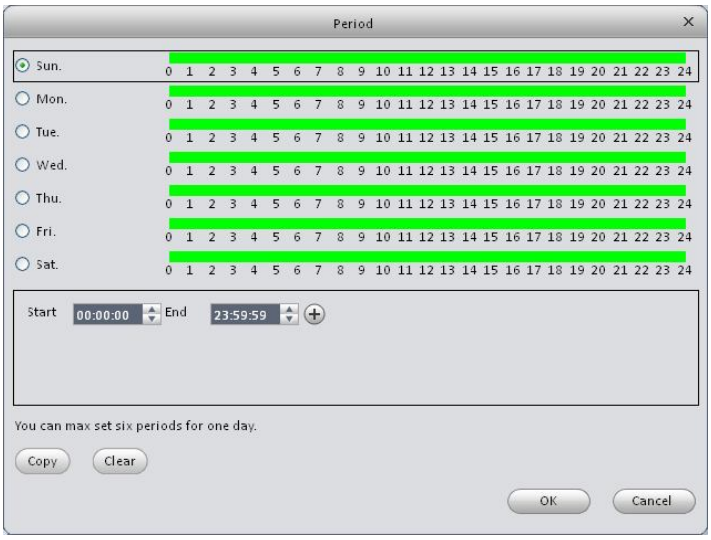


Figure 3-56

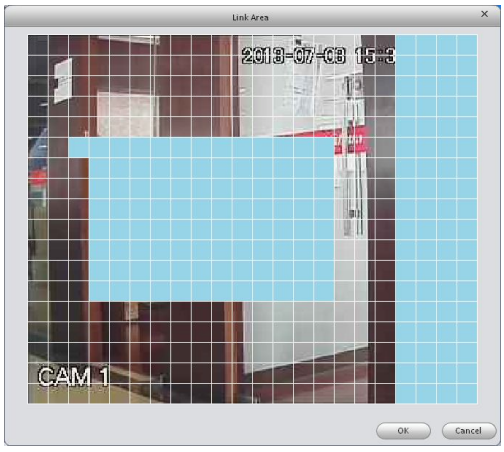


Figure 3-57

Please refer to the following sheet for detailed information.

Parameter	Function
Enable	You need to check the box to enable motion detection function.
Arm/disarm Period	Motion detection function becomes activated in the specified periods. See Figure 3-56. There are six periods in one day. You can click to add/delete period. Click OK button, system goes back to motion detection interface, please click OK button to exit.
Anti-dither	System only memorizes one event during the anti-dither period. The value ranges from 5s to 600s.
Sensitivity	There are 10 levels. The sixth level has the highest sensitivity.
Zone	You can click this button to set motion detection zone. The interface is shown as in Figure 3-57. Do remember clicking OK button to save your motion detection zone setup.
Record channel	System auto activates motion detection channel(s) to record once an alarm occurs. Please note you need to set motion detect record period and go to Record-> record plan to set current channel as schedule record.
Record Delay	System can delay the record for specified time after alarm ended.
Alarm output	Enable alarm activation function. You need to select alarm output port so that system can activate corresponding alarm device when an alarm occurs.
Output delay	System can delay the alarm output for specified time after an alarm ended. The value ranges from 1s to 300s.
Show message	System can pop up a message to alarm you in the local host screen if you enabled this function.
Buzzer	Check the box here to enable this function. The buzzer beeps when an alarm occurs.
Alarm upload	System can upload the alarm signal to the centre (Including alarm centre.
Message	When 3G network connection is OK, system can send out a message when motion detect occurs.
Send Email	If you enabled this function, System can send out an email to alert you when an alarm occurs.
SMS	If you enabled this function, System can send out a message to specified phone to alert you when an alarm occurs.
Tour	You need to check the box here to enable this function. System begins 1-wiindow or multiple-window tour display among the channel(s) you set to record when an alarm occurs.
PTZ Activation	Here you can set PTZ movement when alarm occurs
Video Matrix	This function is for motion detect only. Check the box here to enable video matrix function.

3.7.4 Picture Property

Here you can set camera property. See Figure 3-58.

Figure 3-58

Please refer to the following sheet for detailed information.

Parameter	Function
Color mode	It is to set color mode.
Hue	It is to set color hue.
Brightness	It is to adjust color whole brightness. The large the value is, the bright the video is and vice versa. When you set, the dark pane and the bright pane of the video can be increased or decreased accordingly at the same time.
Contrastness	It is to set video contrast. The large the value is, the big the contrast is, vice, versa.
Saturation	It is to set color saturation. The larger the value is, the strong the color is and vice versa.

3.7.5 PTZ

It is for you to set PTZ parameter. See Figure 3-59

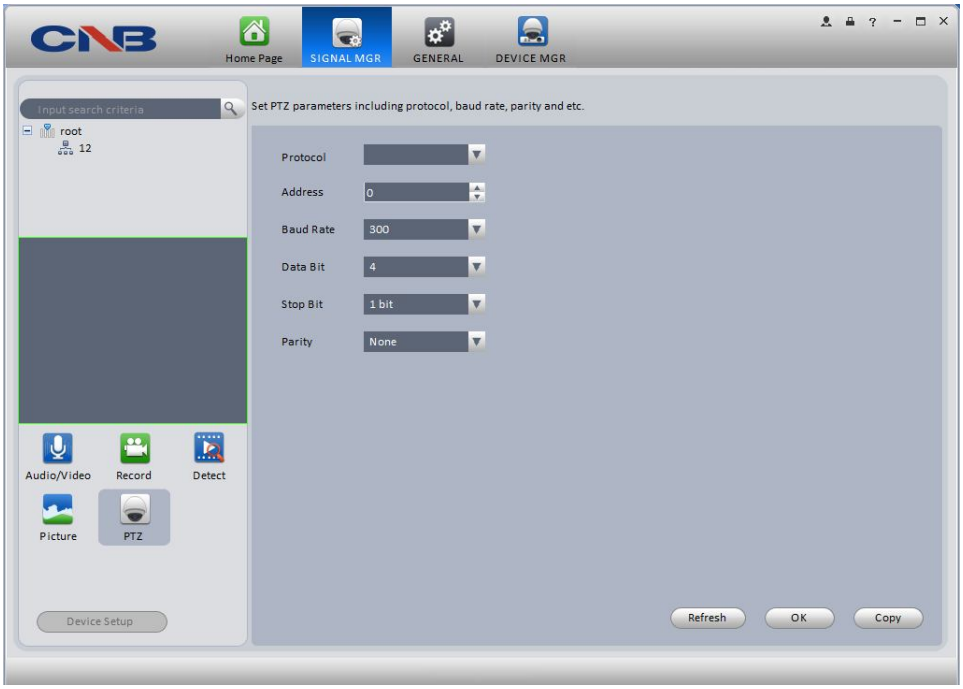


Figure 3-59

Please refer to the following sheet for detailed information.

Parameter	Function
Channel	Select speed dome connected channel.
Protocol	Select the corresponding dome protocol such as PELCOD.
Address	Set corresponding dome address. Default value is 1. **Please note your setup here shall comply with your dome address; otherwise you can not control the speed dome.**
Baud Rate	Select the dome baud rate. Please set according to the speed dome dial switch setup.
Data Bit	Default setup is 4. Please set according to the speed dome dial switch setup.
Stop bit	Default setup is 1. Please set according to the speed dome dial switch setup.
Parity	Default setup is none. Please set according to the speed dome dial switch setup.

4 Basic Operation

4.1 Preview

4.1.1 Real-time Preview

After you set channel group, you can realize real-time preview, record, snap, PTZ operation and etc.

On the main interface, click , you can go to the preview interface. See Figure 4-1.

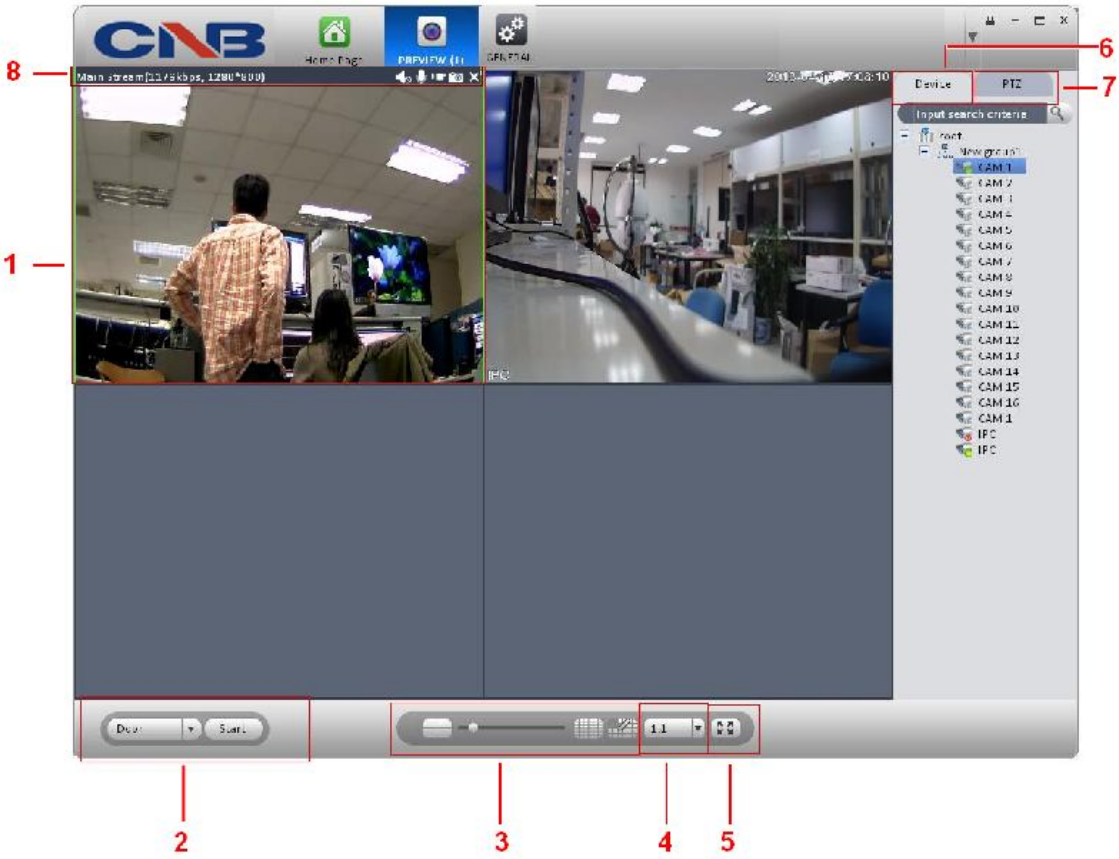


Figure 4-1

Please refer to the following sheet for detailed information.

SN	Item	Function
1	Video window	Real-time video
2	Task window	Select and enable a task. Note ●If you have added task in the monitor task interfacem you can select corresponding task hter and enable it. Fot detailed operation, please refer to chapter 오류! 참조 원본을 찾을 수 없습니다.. ●If you right click mouse and then select Save as a video task, you can save current video window and the channel open in current window as a task, you can select task and then enable.

SN	Item	Function
3	Window split mode	Here you can set window split mode. You can drag the slide bar or use to select 8 window modes.
4	H/W ratio	It is for you to set window height/width ratio. It is to adjust the window to the original size or the suitable scale.
5	Full-screen	It is to go to full-screen mode. You can double click window or right click mouse to select exit full screen.
6	Device	Display device and channel. **For a device or a channel that is not included in the a group, you can not view the device or the channel on the device list.**
7	PTZ	It is to set PTZ preset, tour, aux function and etc.
8	Bit stream information and shortcut operation	Here you can view bit stream information and short cut operation. ● Turn on/off the audio. ● Turn on/off the microphone. ● Turn on/off record. ● Snapshot.

Select a preview window, double click device channel on the right pane to open the video. Double click a group name; you can open all channels under current group. Right click device channel, you can switch between main stream/extra stream.

Right click preview window, you can see an interface shown as in Figure 4-2.

Figure 4-2

Please refer to the following sheet for detailed information.

Item	Function
Close video	Click it to close current window.
Close all video	Click it to close all windows.
Start record	Save audio/video of current window to a record file.
Snapshot	Snapshot current window. Click it once to save one picture.

Item	Function
Triple Snapshot	Snapshot current window. Click it once to save three pictures by default.
Stream type	Switch between main stream/extra stream
Quality/Fluency	You can select between video and fluency.
Adjust	Set video brightness, contrast, hue and saturation.
Start audio	Enable/disable the audio function of the camera.
Start talk	Enable/disable the bidirectional function of current device.
IVS overlay	Once you select this function, system can overlay IVS rule, intelligent track and intelligent object on the window.
Save as video task	Save current window and the channel open in it as one task.
Full-screen	Click it to switch to full screen mode. You can double click video window or right click mouse and then select exit full screen to exit.

4.1.2 Record

During the preview process, you can follow the steps listed below to record.

On the preview interface, right click mouse and then select record button.

Or you can click the button at the top of the video window to record.

The icon becomes when device is recording.

You can right click mouse to select stop record or click the at the top of the video window to stop record.

The default record save path is Mdn_viewer/Record. Here you can go to chapter3.3 General and then select file setup icon to modify record save path.

4.1.3 Snapshot

During the preview process, you can follow the steps listed below to snapshot.

1) On the preview window, right click mouse and then select snapshot. You can see system pops up snapshot dialogue box. See Figure 4-3.

Tips

You can also click at the top of the video window to snapshot.

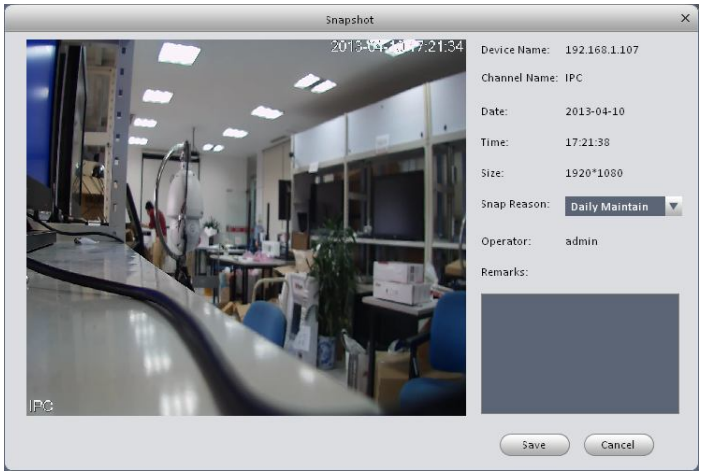


Figure 4-3

2) Please select corresponding parameter from the snapshot reason dropdown list and then input the information in the Remarks column.
3) Click save button, you can see system prompts “Successfully snapshot”.

On the Preview window, right click mouse and then click Triple snapshot, you can snap three pictures at one time. You can see the corresponding dialogue box if the snapshot succeeds. The default picture save path is Mdn_viewer/capture. Here you can go to chapter 3.3 General and then select file setup icon to modify picture save path.

4.1.4 PTZ

If the device type is Speed dome, you can click the PTZ button to set. See Figure 4-4.

Figure 4-4

Please refer to the following sheet for detailed information.

Item	Function
Direction buttons	It is to set PTZ movement direction. There are total 8 directions. Top/bottom/left/right/top left/top right/bottom left/bottom right.
Digital zoom (High-speed PTZ)	It allows you to zoom in or zoom out the specified zone. Please note, you can only use mouse to control.
Step	It is to control PTZ movement speed. It supports value 1 to value 8.
Zoom	It is to control speed dome to realize zoom function.
Focus	It is to adjust video definition.
Iris	It is to adjust brightness.
Preset	You can set camera to a specified preset. Use direction keys to move the camera to your desired location and then input preset value. Click Set button, you have set one preset.
Tour	This function allows the camera to move between several presets. Please note as long as your speed dome supports preset funciton, it supports tour funcion.

Item	Function
Aux	It is to call light, wiper, PTZ menu, auto rotation, aux 1, and aux 2.

4.1.4.1 Preset

This function allows you to set camera to a specified position.

Preset setup

1) In Figure 4-4, Use direction keys to move the camera to your desired location.
2) Click Preset button and then select preset number from the dropdown list. Click setup button to save current setup. Now you can see an interface shown as in Figure 4-5.

Figure 4-5

Call preset

In Figure 4-4, click Preset button, select a value from the dropdown list and then click Goto function, you can call a preset.

4.1.4.2 Tour

This function allows camera to go between several presets.

Important

Before you use this function, please set at least two presets first.

Tour setup

1) In Figure 4-4, click Tour button and then click Set.
2) System pops up the following dialogue box. See Figure 4-6.

Figure 4-6

3) Click New button, you can see the following interface. See Figure 4-7.
4) Input tour number/tour name/stay time and then select preset number from the dropdown list.
5) Click Add button to add one preset to the tour. Select another preset number from the dropdown list and then click Add button again to add more preset to the tour.
6) Click OK button to complete the tour setup.

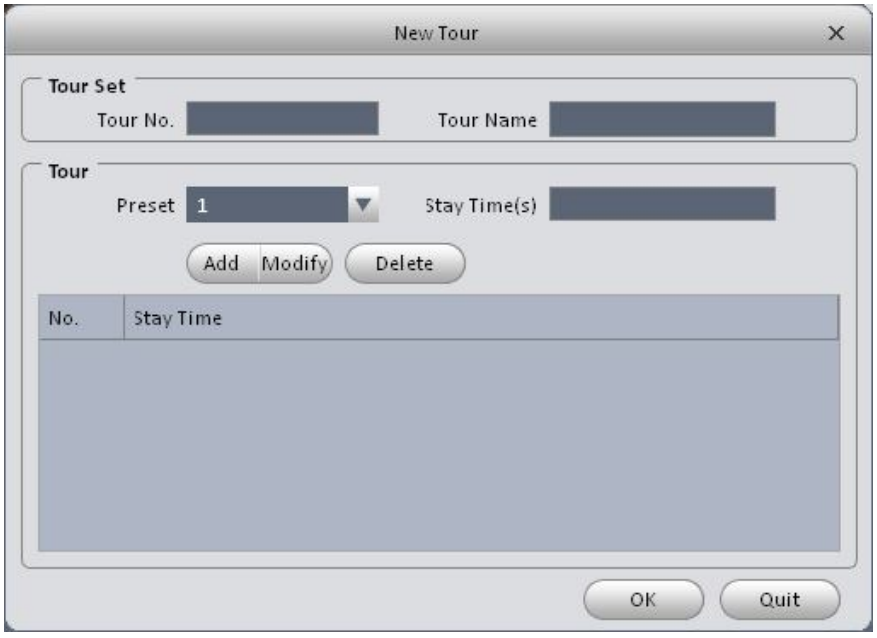


Figure 4-7

Now you can see an interface shown as in Figure 4-8.

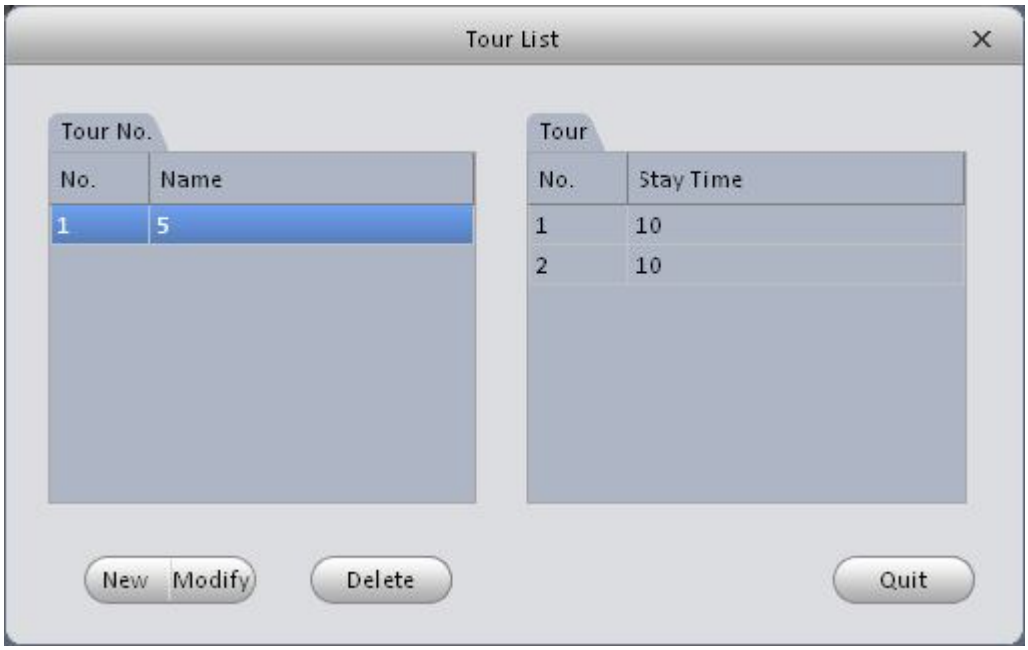


Figure 4-8

Click Quit button to exit.

Call tour

In Figure 4-4, select corresponding tour value from the dropdown list and then click Start button, you can call it.

4.2 Playback

After you recorded a file, you can go to this interface to playback.

On the main interface, click , you can go to the playback interface. See Figure 4-9.

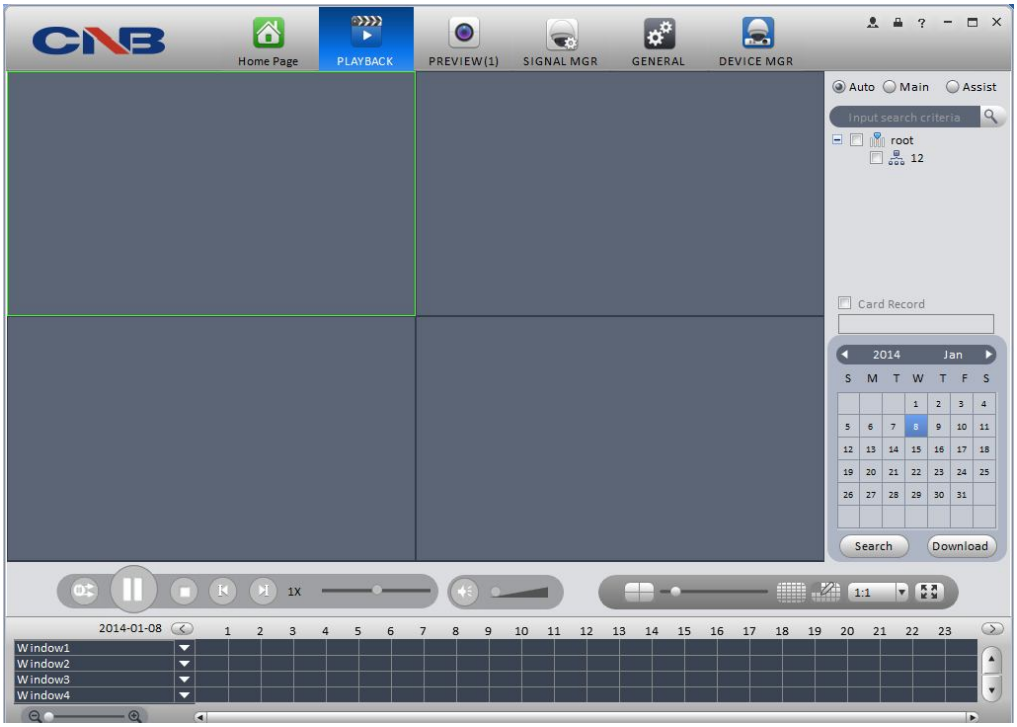


Figure 4-9

4.2.1 Playback Record

Important

System can only search records of the storage plan. It can not search the local record (The record files are saved to the default path "Mdn_viewer/Record".)

Please follow the steps listed below to search the record you want and then playback.

1) Check channel on the device list on the top right pane.
2) Select search time.
3) Click the button on the left bottom to select record type.
4) Click Query button. You can see corresponding date is green if there is a record on current data. You can see the corresponding dialogue box if there is no record.
5) Now you can see playback window. See Figure 4-10.

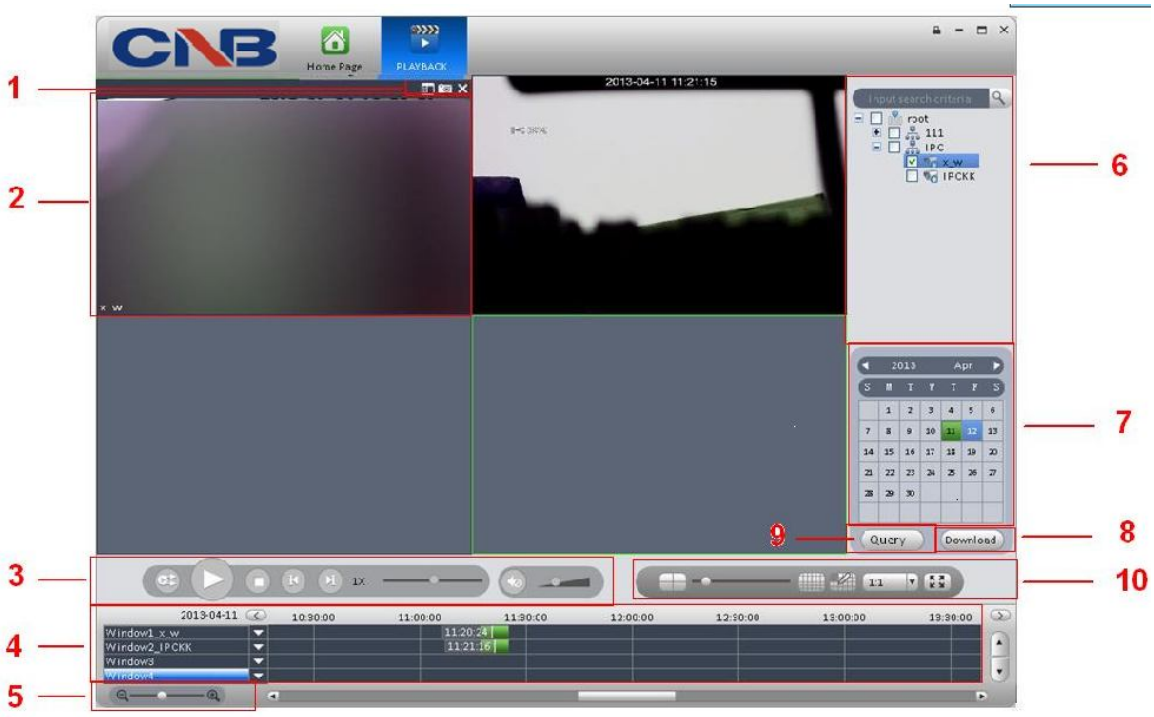


Figure 4-10

Please refer to the following sheet for detailed information.

SN	Item	Function
1	Shortcut operation column	There are shortcut operations to download record file and snapshot. ● : Download record file. ● : Snapshot.
2	Playback window	Playback record.
3	Playback tool bar	It is to control the playback process, audio and etc: ● : Window sync operation button. When this function is enabled, the operation of the playback bar is for all windows. When it is in status, it is for current selected window only. ● : It is to switch playback and pause. ● : Stop playback. ● : Frame by frame backward. ● : Frame by frame forward. ● : It is to control the playback speed. ● : It is to adjust volume.

SN	Item	Function
4	Record playback type and time process bar	It is to set record type and time line when playback. Click to set record type.
5	Time bar control	It is to zoom in /zoom out time line.
6	Device list	Display device and channels. **Note** For a device or a channel that is not included in the group management mode, you can not view it on the device list of the Preview interface.
7	Date	Select record date.
8	Download manager	It is to manage download files.
9	Query	Click it to search record.
10	Window display mode setup	It is to set window split mode, h/w ratio, and full-screen or not. You can drag the slide bar or to set 8 modes.

4.2.2 Download

Click button at the top right corner of the playback window. System pops up the following interface. You can set to download by time or by record. Here you can download or pause download process.

Click by file, check the file(s) you want to download and then click Download button. See Figure 4-11.

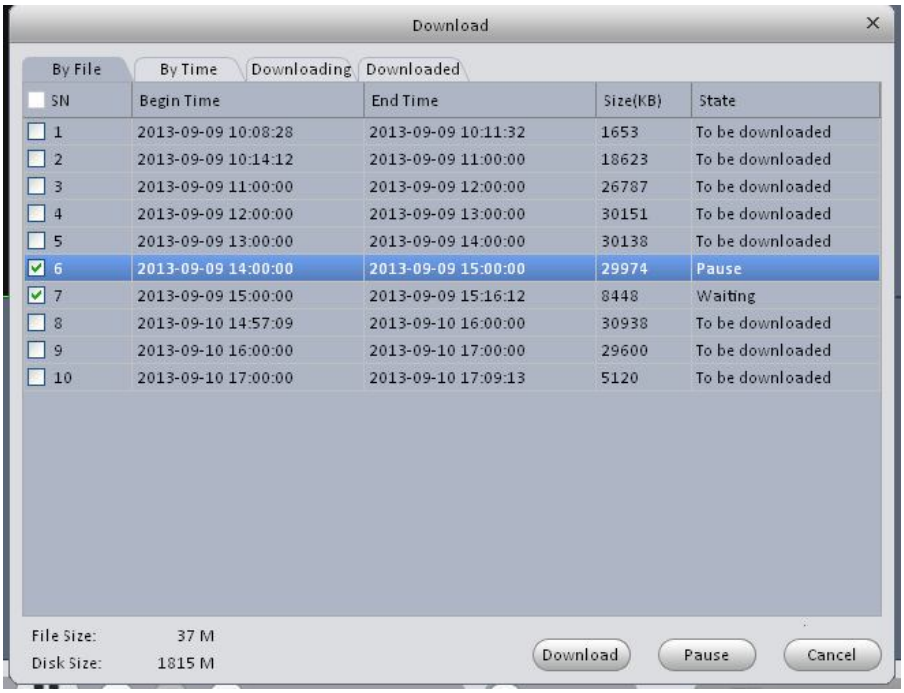


Figure 4-11

Click to select download by time, please input download period and then click Download button.

See Figure 4-12.Click to set more download periods.

Figure 4-12

Click Downloading button, you can view current download file process. See Figure 4-13.

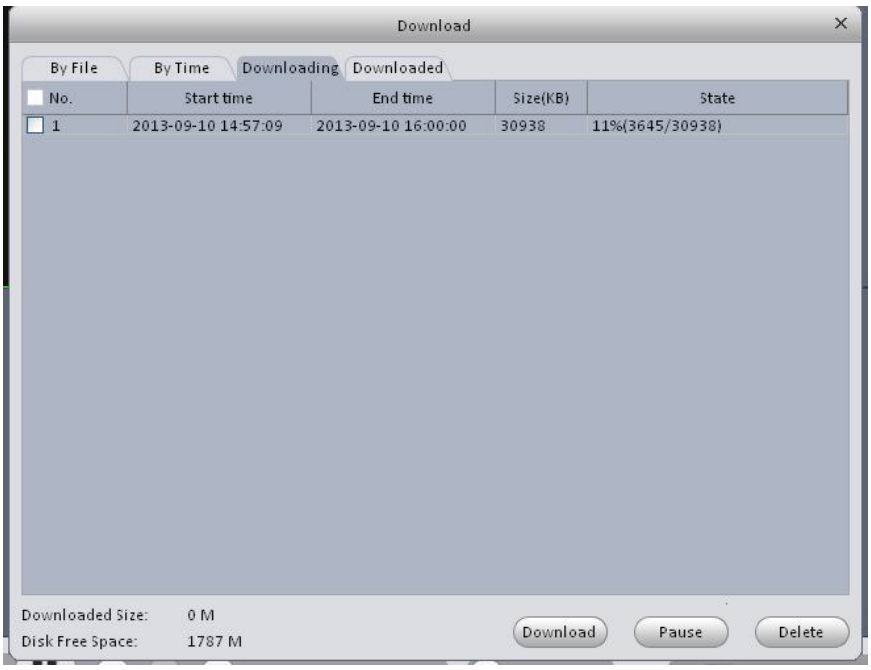


Figure 4-13

Click Download button, you can see download file. See Figure 4-14.

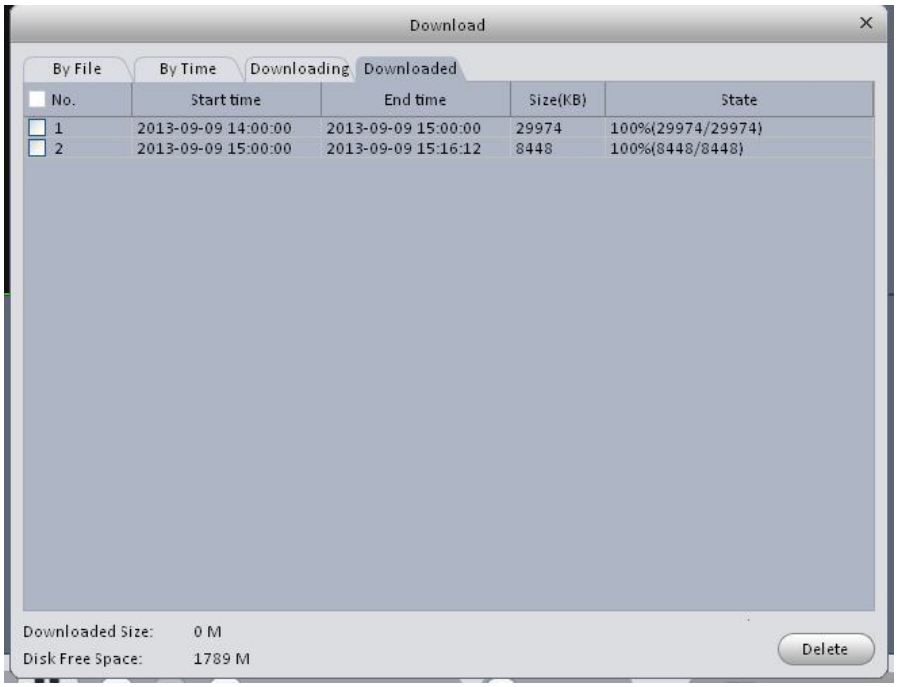


Figure 4-14

4.3 Alarm Manager

If you have set alarm scheme, you can see the corresponding alarm in the Alarm manager interface. You can refer to chapter 3.6.1 to set alarm scheme first.

Click icon on the main interface, you can go to Alarm manager interface. See Figure 4-15.

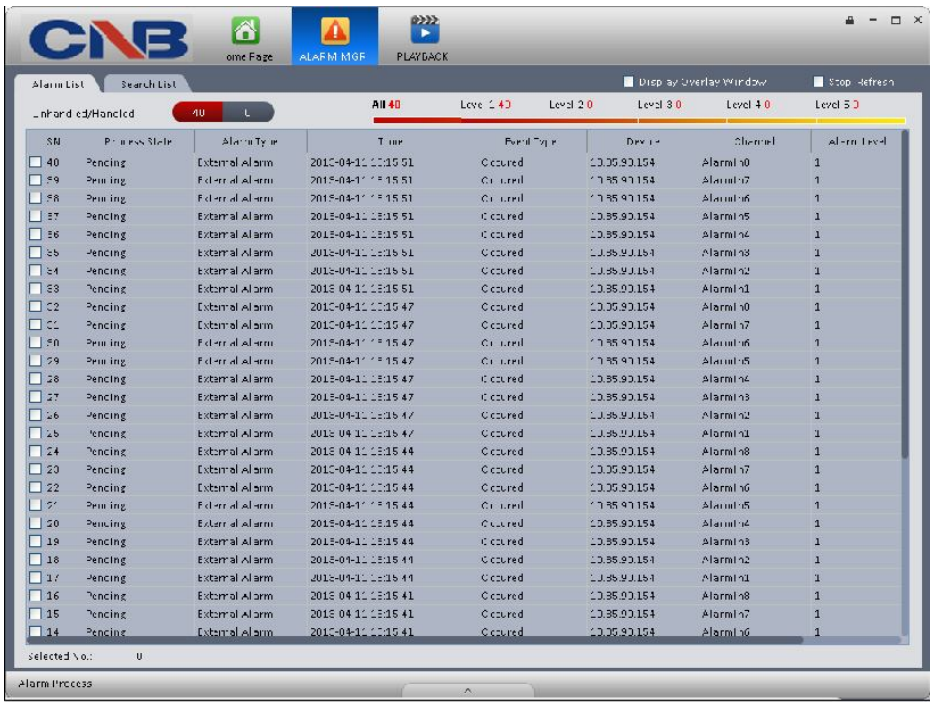


Figure 4-15

Click alarm list, system displays all alarms and can display them by their level.
Click query list, check corresponding channel on the right pane and then select alarm type, start time. Click Search button, you can see all alarm records matching the criteria you set here. See Figure 4-16.

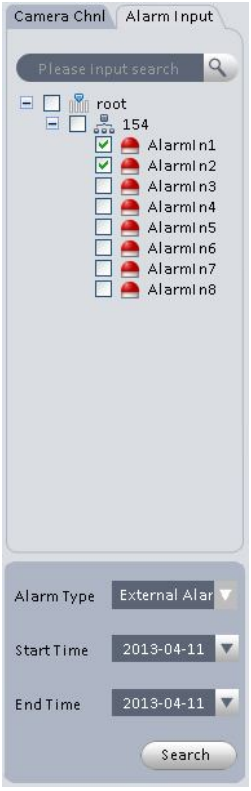


Figure 4-16

4.4 Alarm Activation

If you have set alarm activation video function in your alarm scheme setup (chapter 3.6.2), you can see system pops up video window when a corresponding alarm occurs. See Figure 4-17. If you check the box at the bottom of the interface to pause refresh, the new alarm activation video will not overwrite current one. Click Alarm Manager at the right bottom of the interface, system goes to the alarm manager interface for you to view the corresponding alarm record.

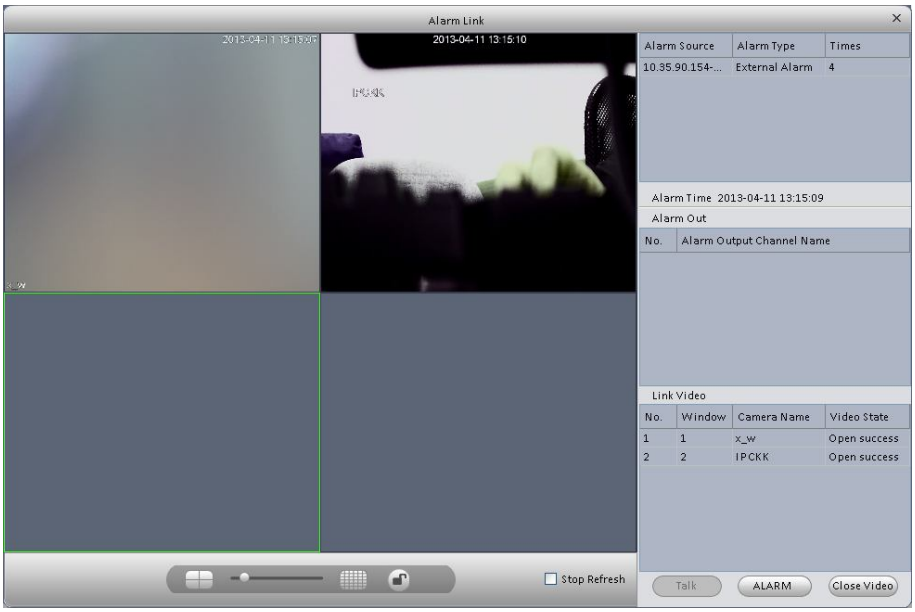

Alarm Link
2013-04-11 13:15:10
Alarm Source
Alarm Type
Times
10.35.90.154-...
External Alarm
4
Alarm Time 2013-04-11 13:15:09
Alarm Out
No.
Alarm Output Channel Name
Link Video
No.
Window
Camera Name
Video State
1
1
x_w
Open success
2
2
IPCKK
Open success
Stop Refresh
Talk
ALARM
Close Video

Figure 4-17

5 Extension

5.1 E-map

Click icon on the main interface, you can go to the e-map interface. You can view the device on the e-map. On the preview map interface, you can zoom e-map or open video, but you can not edit it. On the Edit e-map interface, you can edit e-map, add camera and etc.

5.1.1 Edit E-map

Click

, you can go to the following interface. See Figure 5-1.Click Tools, you can edit e-map, delete e-map, delete device, add area, modify area, delete area and etc.
Drag a channel on the right pane to the e-map; you can add it to the e-map.

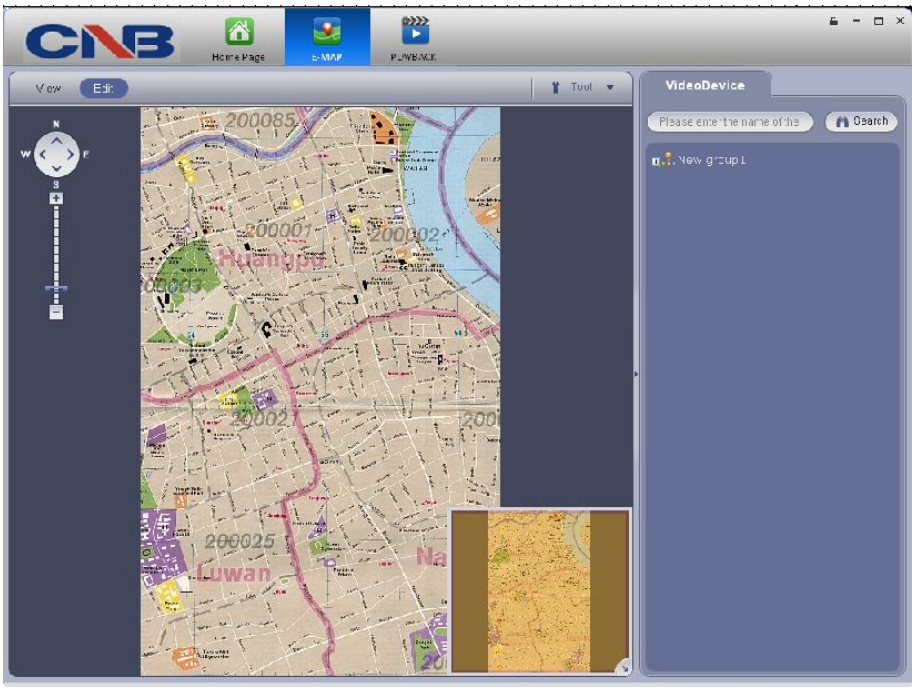


Figure 5-1

If you are in full-screen mode, you can see a function bar shown as below. See Figure 5-2.

Figure 5-2

Please refer to the following sheet for detailed information.

Item	Function
Modify e-map	It is for you to change e-map name, picture, description
Delete e-map	Delete current e-map.
Delete device	Delete a device from the e-map.

Item	Function
Add area	Add hot zone on the e-map.
Modify area	Change hot zone map name, picture and description.
Delete area	Delete corresponding hot zone.

5.1.2 Preview E-map

After you edit e-map, you can click Preview button to view. Buttons at the left top of the interface can zoom in, zoom out or move e-map. Double click a camera on the e-map, you can view video. See Figure 5-3.

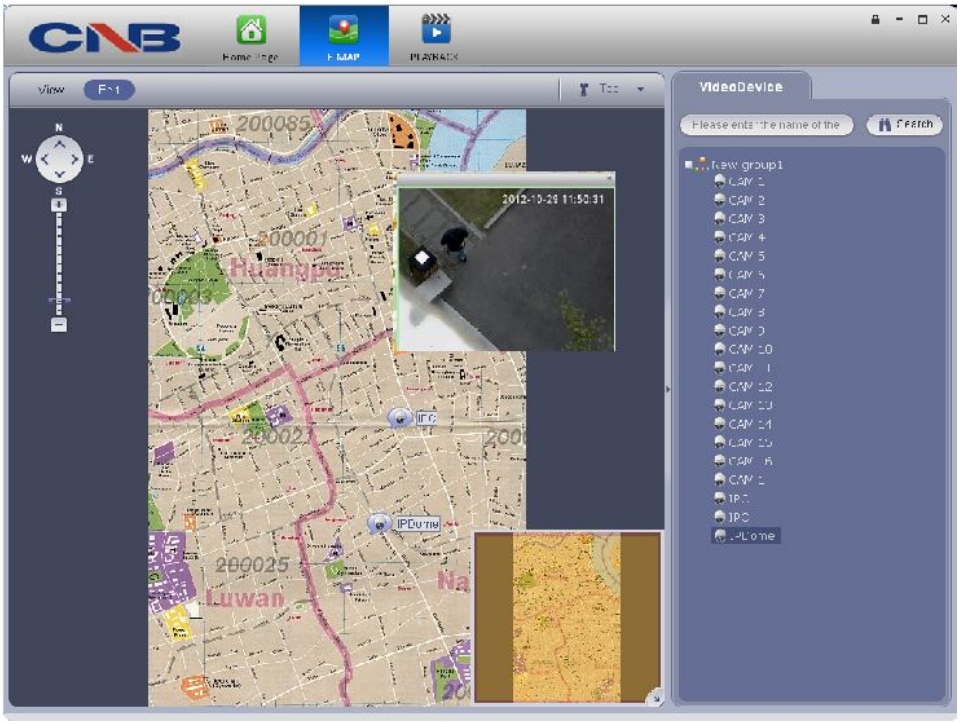


Figure 5-3

5.2 Local Data

In this interface, you can set criteria to search corresponding record/picture on your local-end. That is to say, you can search the records or pictures saved on the Preview interface. See Figure 5-4.

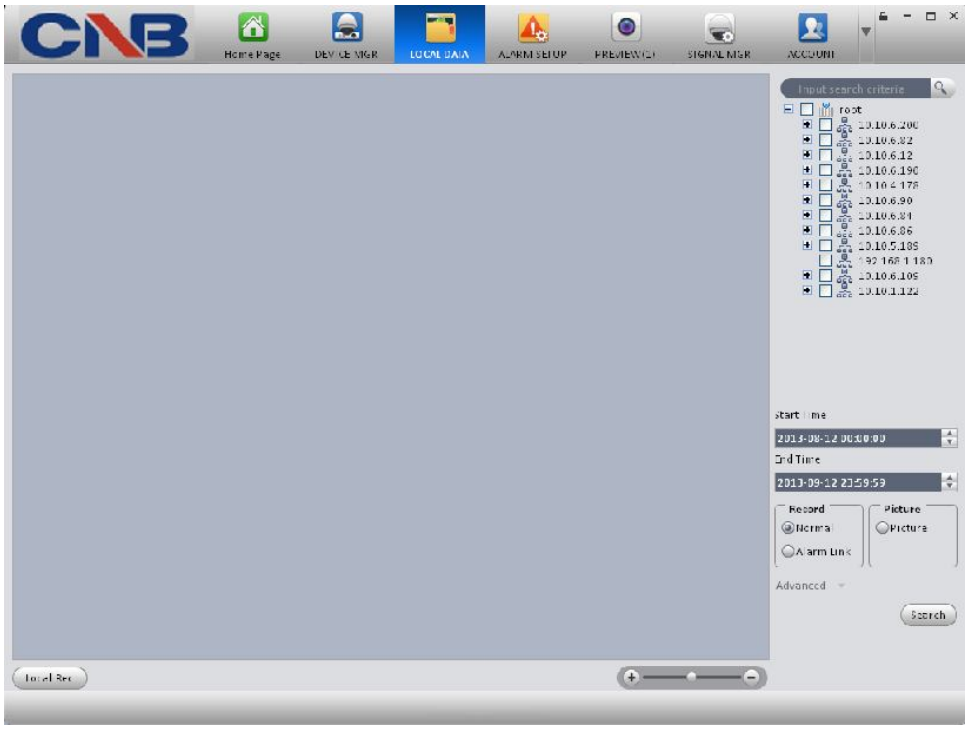


Figure 5-4

1) Select a device or channel on the right pane.
2) Input start time/end time.
3) Select search type such as normal record, alarm record and picture.

Tips

- When you are searching picture process, click Advanced ▼ button to set snapshot reason, key words and etc. See Figure 5-5.

Figure 5-5

- When you are searching alarm activation record process, click Advanced ▼ to set alarm type to search the specified alarm record. See Figure 5-6.

Figure 5-6

4) Click Query button, you can see search results. See Figure 5-7.

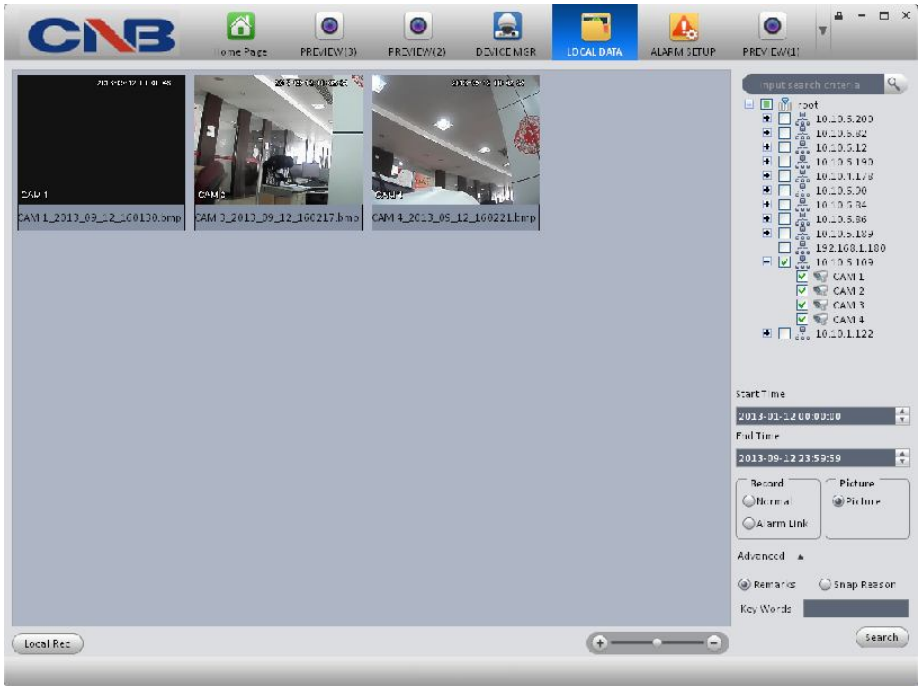


Figure 5-7

Check

button at the left bottom of the interface, you can view and playback local record.

Note:

- **This manual is for reference only. Slight difference may be found in the user interface.**
- **All the designs and software here are subject to change without prior written notice.**
- **All trademarks and registered trademarks are the properties of their respective owners.**
- **If there is any uncertainty or controversy, please refer to the final explanation of us.**
- **Please visit our website or contact your local service engineer for more information.**